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THE REGISTRAR GENERAL'S

STATISTICAL REVIEW

OF

ENGLAND AND WALES

FOR THE YEAR
1957

PART III
COMMENTARY

LONDON
HER MAJESTY'S STATIONERY OFFICE
1959

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STATISTICAL REVIEW

THE

ENGLAND AND WALES

FOR THE YEAR

1961

PARTIT

COMMENTARY

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EXPLANATORY NOTES

1. Populations

The estimates of population appearing in this volume and described as "home" or "total" populations, have the following content:

Home population—the population, of all types, actually in England and Wales, distributed by area according to residence.

Total population—the home population plus members of H.M. Forces belonging to England and Wales and serving overseas but excluding the Forces of other countries temporarily in England and Wales.

2. Numbering of Tables

Of the tables referred to in this review, those numbered in Arabic numerals will be found in "Part I, Tables, Medical" and those lettered will be found in "Part II, Tables, Civil" for the year in question, while those numbered in Roman numerals appear in this volume.

3. Indication of Significance

Rates based upon less than 20 births, deaths, notifications or divorces are distinguished by italic type as a warning to the user that the smallness of the experiences may affect their significance (see also page 9 of the 1936 Statistical Review, Text Volume).

Rates given as 0 indicate that the rate is less than half the final digit shown. A dash (—) in any column indicates that there were no events.

4. Definition of Areas

London A.C. = administrative county of London which consists of the City of London (including the Inner and Middle Temples) and the metropolitan boroughs.

C.B. = county borough; M.B. = municipal borough; Met.B. = metropolitan borough; U.D. = urban district; R.D. = rural district.

5. Standard Regions

The constitution of the standard regions of England and Wales used in this volume is as follows:

REGION I Northern Cumberland	REGION IV Eastern Bedfordshire	REGION VI Southern Berkshire	Wales II (remainder) Anglesey Caernarvonshire
Durham	Cambridgeshire	Buckinghamshire	Cardiganshire
Northumberland	Ely, Isle of	Dorset	Denbighshire
Westmorland	Essex, Part of ²	Oxfordshire	Flintshire
Yorkshire, North Riding	Hertfordshire, Part of	Southampton	Merionethshire
	Huntingdonshire	Wight, Isle of	Montgomeryshire
REGION II	Norfolk	73.43	Pembrokeshire
East and West Ridings	Suffolk, East		Radnorshire
Yorkshire, East Riding	Suffolk, West	REGION VII	
Yorkshire, West Riding	· · i.i.	South Western	REGION IX
REGION III	REGION V	Cornwall Devon	Midland
North Midland	London and South Eastern	Gloucestershire	Herefordshire
Derbyshire, Part of 1	Essex, Part of 4	Somerset	Shropshire
Leicestershire	Hertfordshire, Part of	Wiltshire	Staffordshire
Lincolnshire—	Kent	Wittsame	Warwickshire
Parts of Holland	London Admin. County		Worcestershire
Parts of Kesteven	Middlesex	REGION VIII	
Parts of Lindsey	Surrey	Wales I (South East)	REGION X
Northamptonshire	Sussex, East	Brecknockshire	North Western
Nottinghamshire	Sussex, West	Carmarthenshire	Cheshire
Peterborough, Soke of		Glamorganshire	Derbyshire, Part of
Rutland		Monmouthshire	Lancashire

- 1. All except Buxton M.B., Glossop M.B., New Mills U.D., Whaley Bridge U.D. and Chapel en le Frith R.D.
- 2. All except East Ham C.B., West Ham C.B., Chingford M.B., Wanstead and Woodford M.B., Leyton M.B., Walthamstow M.B., Ilford M.B., Barking M.B., Dagenham M.B., Waltham Holy Cross U.D. and Chigwell U.D.
 - 3. All except Barnet U.D., Bushey, U.D., Cheshunt U.D., East Barnet U.D. and Elstree R.D.
 - 4. All areas stated in 2 above.
 - 5. All areas stated in 3 above.
 - 6. All areas stated in 1 above.

6. Conurbations

The conurbation areas used in this volume are those which were agreed in 1950, under the aegis of the Interdepartmental Committee on Social and Economic Research and the Central Statistical Office, for the presentation of official statistics generally.* They each consist of an aggregation of entire local authority areas and are constituted as follows:

Tyneside

Durham

Felling U.D. Hebburn U.D. Jarrow M.B. Whickham U.D.

Northumberland

Newcastle upon Tyne C.B. Tynemouth C.B.

Gosforth U.D.

Longbenton U.D. Newburn U.D. Wallsend M.B. Whitley Bay M.B.

West Yorkshire

Yorkshire, West Riding

Bradford C.B. Dewsbury C.B. Halifax C.B. Huddersfield C.B. Leeds C.B. Wakefield C.B.

Gateshead C.B.

South Shields C. R.

Aireborough U.D. Baildon U.D.
Batley M.B.
Bingley U.D.
Brighouse M.B.

Colne Valley U.D. Denby Dale U.D. Denholme U.D. Elland U.D.

Heckmondwike U.D. Holmfirth U.D. Horbury U.D. Horsforth U.D. Keighley M.B.

Kirkburton U.D. Meltham U.D. Mirfield U.D. Morley M.B.

Ossett M.B. Pudsey M.B.
Queensbury and Shelf
U.D. Ripponden U.D. Rothwell U.D.

Shipley U.D. Sowerby Bridge U.D. Spenborough M.B. Stanley U.D.

South East Lancashire

Cheshire

Stockport C.B. Alderley Edge U.D. Altrincham M.B. Bowdon U.D. Bredbury and Romiley U.D. Cheadle and Gatley U.D.

Dukinfield M.B. Hale U.D. Hazel Grove and Bramhall Hazel Grove and U.D. Hyde M.B. Marple U.D. Sale M.B. Stalybridge M.B. Wilmslow U.D.

Disley R.D.

Birkenhead C.B. Wallasey C.B.

Bebington M.B.

Bolton C.B. Bury C.B. Manchester C.B. Oldham C.B. Rochdale C.B.

Ashton-under-Lyne M.B. Audenshaw U.D. Chadderton U.D. Crompton U.D. Denton U.D.

Droylsden U.D. Eccles M.B. Failsworth U.D. Farnworth M.B. Heywood M.B.

Lancashire

Horwich U.D. Irlam U.D. Kearsley U.D. Lees U.D. Littleborough U.D.

Little Lever U.D. Middleton M.B. Milnrow U.D. Mossley M.B. Prestwich M.B.

Radcliffe M.B. Royton U.D. Stretford M.B Swinton and Pendlebury M.B. Tottington U.D.

Urmston U.D. Wardle U.D. Westhoughton U.D. Whitefield U.D. Whitworth U.D. Worsley U.D.

Merseyside

Cheshire

Ellesmere Port M.B. Hoylake U.D. Neston U.D. Wirral U.D.

Bootle C.B. Liverpool C.B. Crosby M.B.

Huyton-with-Roby U.D. Litherland U.D.

Lancashire

West Midlands

Staffordshire

Smethwick C.B. Walsall C.B. West Bromwich C.B. Wolverhampton C.B. Aldridge U.D

Amblecote U.D.
Bilston M.B.
Brierley Hill U.D.
Coseley U.D.

Darlaston U.D. Rowley Regis M.B. Sedgley U.D. Tettenhall U.D. Tipton M.B.

Wednesbury M.B. Wednesfield U.D. Willenhall U.D.

Warwickshire Birmingham C.B.

Solihull M.B. Sutton Coldfield M.B.

Worcestershire

Halesowen M.B. Oldbury M.B. Stourbridge M.B.

Dudley C.B.

^{*} See Census 1951, England and Wales, Preliminary Report, page xxii, H.M.S.O. price 5s. 0d. net; also Census 1951, England and Wales, Report on Greater London and Five Other Conurbations, page xv, H.M.S.O. price £5 5s. 0d. net.

Greater London

London
(whole county)
Middlesex
(whole county)

Surrey

Banstead U.D.
Barnes M.B.
Beddington and Wallington M.B.
Carshalton U.D.

Croydon C.B.

Coulsdon and Purley U.D. Epsom and Ewell M.B. Esher U.D.

Kingston-upon-Thames M.B.

Malden and Coombe M.B. Merton and Morden U.D. Mitcham M.B.

Richmond M.B.
Surbiton M.B.
Sutton and Cheam M.B.
Wimbledon M.B.

Kent
Beckenham M.B.

Bexley M.B.
Bromley M.B.
Chislehurst and Sidcup
U.D.

Chislehurst and U.D. Crayford U.D. Erith M.B. Orpington U.D. Penge U.D.

Hertfordshire
Barnet U.D.
Bushey U.D.
Cheshunt U.D.
East Barnet U.D.
Elstree R.D.

Essex

East Ham C.B. West Ham C.B.

Barking M.B. Chigwell U.D. Chingford M.B. Dagenham M.B. Ilford M.B.

Leyton M.B.
Waltham Holy Cross U.D.
Walthamstow M.B.
Wanstead and Woodford
M.B.

7. Urban and Rural Aggregates

Urban and Rural Aggregates relate to aggregates of conurbations, and of areas outside conurbations. The latter are subdivided into (a) Urban areas with (i) populations of 100,000 and over, (ii) populations of 50,000 and under 100,000 and (iii) populations under 50,000 (for this purpose areas are allocated according to the size of their enumerated population at the 1951 Census) and (b) Rural Districts. "Urban areas" includes Boroughs and Urban Districts as defined under the Local Government Acts, and Rural Districts are as defined under those Acts.

8. Assignment of Vital Statistics by Area

In all tables births and stillbirths are classified according to the area of usual residence of the parents (or mother), and deaths according to the usual residence of the deceased. The definition of usual residence for this purpose was modified in 1953, the main change being that inmates of hospitals for the chronic sick and of mental and mental deficiency hospitals were in that year regarded as having been resident in the hospital. (A similar change with regard to persons dying in accommodation provided under Parts III and IV of the National Assistance Act, 1948, had already been brought into effect during 1952.) Rates for areas in 1953 are therefore not comparable with those for 1952. Details of the new definitions were conveyed to Medical Officers of Health in 1952 in a memorandum which was reproduced in the 1953 Text Volume. The method of classification of chronic sick hospitals for this purpose was slightly modified in 1954 and from that year rates for a certain number of smaller areas may not be comparable with those for 1953.

9. General

See also the Explanatory Notes to the Tables volumes, Parts I and II.

CORRIGENDA

Statistical Review 1956, Part III, Commentary Volume

Page 25 Table XVI, column 1, for \(\frac{1}{6} \) read \(\frac{1}{3} \)

Page 28 Line 19, for 1955 read 1956

Page 66 Line 24, for M¹ and r¹ read M' and r' Line 26, for C.M.I. = Σ M (r + r¹)/LM¹ (r + r¹) read C.M.I. = Σ M (r + r')/ Σ M' (r + r')

INTRODUCTION

The aim of this Commentary is mainly to underline the more important statistics already published in the first two parts of the *Statistical Review* for 1957. By making comparisons with figures for earlier years, by reviewing trends and by explaining changes so far as possible the Commentary is intended to assist those who, for reasons of administration or research, have to take account of the vital statistics of England and Wales for 1957. In addition, some account is given of other aspects of the work of the General Register Office during that year.

Population

The estimated home or actual population of England and Wales at mid-1957 was 44·9 millions. In round numbers the population has increased by an average 180,000 a year since 1951 at a rate of increase which has tended to quicken slightly, the increment between the mid-year 1956 and 1957 amounting to 240,000 or 0·5 per cent. Annual natural increase has varied from 141,000 in 1954–1955, a year of lower than average births and higher than average deaths, to 226,000 in 1956–1957, a year of high numbers of births and low mortality. With very little variation from year to year the net gain to England and Wales of migrations within the United Kingdom averaged 19,000 over the six years from mid-1951 to mid-1957. This serves to balance net emigration overseas.

Births

The 723,381 live births which occurred in England and Wales in 1957 were the largest number since 1949 and the crude birth rate of 16·1 per thousand population was the highest since 1950. Until the spring of 1955 the birth rate had been fairly constant, with some tendency to fall, since the end of the disturbance caused by the war, but it has been rising ever since.

The birth rate per thousand women aged 15-44 was 80.0 in 1957; this brought the rate back to the level of the early nineteen-twenties and was 29 per cent higher than in 1938.

Marriages

There were 346,903 marriages contracted in England and Wales in 1957. This was about 6,000 fewer than in 1956 and is explained by the smaller number of unmarried persons of marriageable age in the population. The crude marriage rate, 15·4 persons marrying per thousand total population, was just slightly lower than in 1956. The tendency to marry younger is reflected in the proportion of brides and grooms who are under 21. For men it rose from 3·4 per cent in 1938 to 8·7 per cent in 1956 and 9·6 per cent in 1957; from 16·4 per cent for women in 1938 it increased to 32·2 and 33·6 per cent in 1956 and 1957.

Divorce

In England and Wales 27,858 petitions for dissolution or annulment of marriage were filed in 1957. Decrees made absolute during the year numbered 23,785 or 2 per thousand married couples. The analysis of dissolution and annulments made absolute was put on a new basis in 1957 and it will be seen that the tables in Part II are more detailed.

Mortality

In 1957 there were 514,870 deaths registered in England and Wales. The crude death rates were $12 \cdot 3$ per thousand males and $10 \cdot 7$ per thousand females, both slightly lower than the rates for 1956. On the basis of the death rates for 1955–57, the expectation of life at birth was 68 years for males and 73 years for females.

Infant mortality

The infant mortality rate in 1957 was $23 \cdot 1$ and the early neonatal mortality rate (deaths in the first week) $14 \cdot 1$ per thousand live births; the stillbirth rate was $22 \cdot 5$ per thousand total births, live and still. Both the infant mortality and the neonatal rates were the lowest yet recorded in England and Wales.

Tuberculosis

There were 4,784 deaths assigned to tuberculosis in 1957 compared with 5,375 in 1956, a fall of 591 or 11 per cent. Deaths from respiratory tuberculosis numbered 4,249 representing a fall of 604 (12 per cent) on the number for 1956.

Cancer

The deaths assigned to cancer during 1957 numbered 94,017; of these 50,056 were of males and 43,961 of females. For each sex these numbers are the highest yet recorded.

Diseases of the circulatory system

188,630 deaths in 1957 were assigned to diseases of the circulatory system and a further 73,669 to vascular lesions affecting the central nervous system, making 262,299 deaths in all, or 51 per cent of all deaths in England and Wales.

Accidental and violent deaths

The 21,561 deaths due to accidents and violence in 1957 compared with 21,870 in 1956 and 21,469 in 1955. Crude death rates, which were 604 per million living for males and 383 for females in 1956, decreased to 594 and 374 in 1957. The number of deaths from motor vehicle accidents in 1957 was 112 less than in 1956 and at ages 0-9 the rates per million reached the low levels of 74 for boys and 42 for girls. At the other end of life, the rate of 604 for men aged 75 and over was the highest for this age-group since 1942 for this cause.

3,170 male and 2,145 female deaths were attributed to suicide in 1957. Domestic gas was employed by 42 per cent of the male and 56 per cent of the female suicides.

International co-operation in population and health statistics

Almost exactly ten years after the date of the first meeting, representatives of all fifteen member states met in New York on the 25th February 1957 for the ninth session of the Population Commission of United Nations. The Commission's report was noted by the Economic and Social Council at its twenty-third session when two resolutions recommended by the Commission were adopted. One resolution focused attention on the need to improve census and vital statistics in Africa, the other aimed at encouraging governments to help the United Nations to meet increasing demands for technical assistance.

The Conference of European Statisticians which met in Geneva in June 1957 considered a report on the second session of the Working Group on Censuses of Population and Housing held in the previous November. This Working Group had a further meeting in December 1957.

The Tenth World Health Assembly adopted two resolutions concerned with health statistics: one was introduced by the United States delegation with the object of considering how far WHO could do more to help countries to remedy defects and fill gaps in health statistics; the other, sponsored by seven countries on the initiative of the United Kingdom, pointed to the epidemiological study of cancer as a potentially useful method of research into its aetiology.

Other international meetings to which reference is made in this Commentary include the WHO Sub-Committee on Cancer Statistics, a Symposium on Public Health Aspects of Chronic Disease, an Inter-American Seminar on Classification of Diseases, the Ninth International Conference of Labour Statisticians, the thirtieth regular session of the International Statistical Institute and the Second World Congress on Psychiatry.

Thirty-five students and others from twenty-two Commonwealth and foreign countries spent varying periods studying at the General Register Office during 1957.

The Registration Service

The number of searches paid for by the public in 1957, a total of 229,685, was the highest since 1952. There were 317,616 certificates issued during the year, the highest number since 1948. 2,511 births of legitimated persons were re-registered during the year and the number of entries in the Adopted Children Register was 13,403.

National Health Service Central Register

During the year 1957, the National Health Service Central Register was notified of 1,557,472 persons who were recorded as having registered with doctors for the first time. The Register showed that 194,646 of these were already on doctors' lists.

Parliamentary and local government electors

This Commentary includes particulars of the number of parliamentary and local government electors and their proportion to the total population. It also gives particulars about the Central Index of Service Voters.

General Register Office, Somerset House, London, W.C.2. October, 1959.

POPULATION

The estimated *home* or actual population of England and Wales at mid-1957 was 44,907,000. This estimate relates to the number of people actually in the country; it includes all Armed Forces in England and Wales even though they may be drawn from other parts of the United Kingdom and Commonwealth or from any other country; it excludes any of H.M. Forces outside England and Wales even though they are drawn from this country.

The total population, viz. an estimate of the population belonging or economically attached to England and Wales, was 45,043,000; this includes an estimate of the proportion of H.M. Forces that may be regarded as drawn from England and Wales wherever they are stationed and excludes members of H.M. Forces drawn from other parts of the United Kingdom and Commonwealth and members of the Forces of other countries, even though they are temporarily in England and Wales.

The civilian population, which excludes all Armed Forces, was 44,425,000. Merchant seamen of England and Wales and visitors abroad are excluded from all three estimates; visitors to England and Wales are included. For the total population the first element should be included and the second excluded but the assumption is made, on the basis of past experience, that the two roughly balance.

Table I. Estimated population mid-1951 to mid-1957, England and Wales

(Figures in thousands)

			Total			Home			Civilian		
			Persons	Males	Females	Persons	Males	Females	Persons	Males	Females
1951			44,007	21,233	22,774	43,815	21,044	22,771	43,284	20,530	22,754
1952 1953			44,166 44,301	21,320 21,397	22,846 22,904	43,955 44,109	21,110 21,206	22,845 22,903	43,402 43,541	20,576 20,658	22,826 22,883
1954 1955		• •	44,480 44,623	21,492 21,569	22,988 23,054	44,274 44,441	21,288 21,389	22,986 23,052	43,742 43,916	20,774 20,879	22,968 23,037
1956 1957	• •		44,821 45,043	21,669 21,782	23,152 23,261	44,667 44,907	21,517 21,648	23,150 23,259	44,151 44,425	21,013 21,177	23,138 23,248

Estimates of the population on all three bases for recent years are shown in Table I. Considering only the population actually in England and Wales it will be seen that this has increased since 1951 by an average of 180,000 a year in round numbers, and that the rate of increase has tended to quicken slightly, the increment in the last year amounting to 240,000, or 0.5 per cent. However, this is a relatively small rate of increase (it compares with 1.6 per cent for the world population as a whole, 1.6 per cent for Asia, and 0.6 per cent for Northern and Western Europe)*.

^{*} U.N. Demographic Yearbook 1957. Weighted rates for continents 1952-56.

The annual growth in the population is the excess of the "natural increase" (the amount by which the number of births is greater than the number of deaths) over the net outward migration balance. The figures which make up the natural increase are shown in Table II, for the period from mid-1951 to mid-1957.

Table II. Natural increase of the population mid-1951 to mid-1957, England and Wales

Year ended		Births		Deaths			Natural increase		
30th June	Persons	Males	Females	Persons	Males	Females	Persons	Males	Females
1952	669,195 679,757 680,794 665,190 687,214 709,658	343,708 349,569 349,788 342,175 354,082 364,569	325,487 330,188 331,006 323,015 333,132 345,089	484,136 521,161 487,860 524,446 516,340 483,659	250,310 269,141 252,565 269,795 266,001 248,948	233,826 252,020 235,295 254,651 250,339 234,711	185,059 158,596 192,934 140,744 170,874 225,999	93,398 80,428 97,223 72,380 88,081 115,621	91,661 78,168 95,711 68,364 82,793 110,378

It will be seen that the annual flow of births has increased since 1955 and is now greater than 700,000. Deaths tend to fluctuate more than births owing to the irregular incidence of epidemics of influenza and other respiratory infections and the uneven influence of other factors affecting mortality, e.g. severe weather or fog. Over the period of the table they may have averaged 503,000. The annual natural increase has varied from 141,000 in 1954–55, a year of lower than average births and higher than average deaths, to 226,000 in 1956–57, a year of high numbers of births and low mortality. It will be noticed also that while boy babies outnumber girl babies by about 20,000, the deaths of men exceed those of women by some 15,000, so that in the natural increase each year the male excess is a mere 5,000 at most.

The annual loss or gain by net migration is indicated by the figures in Table III. Net migration overseas is more variable than net migration from other parts of the United Kingdom. The two elements are quite different.

Table III. Migration mid-1951 to mid-1957, to and from England and Wales (Figures in thousands)

Year ended 30th June		et overse nigration		Net migration within United Kingdom			Total net migration			
	Persons	Males	Females	Persons	Males	Females	Persons	Males	Females	
1952	- 45* - 42 - 30 - 15 - 20	- 17 - 15 - 11 - 6 - 2 - 13	- 28 - 27 - 19 - 9 + 2 - 7	+ 19 + 18 + 13 + 20 + 25 + 20	+ 11 + 11 + 8 + 12 + 13 + 12	+ 8 + 7 + 5 + 8 + 12 + 8	- 26 - 24 - 17 + 5 + 25	- 6 - 4 - 3 + 6 + 11 - 1	- 20 - 20 - 14 - 1 + 14 + 1	

^{*} Including Allied Forces discharged between mid-1951 and mid-1952.

With regard to migration within the United Kingdom it is estimated, for example, that in the year mid-1956 to mid-1957, there was a net gain of some 20,000 persons (12,000 males, 8,000 females) to England and Wales from

Ireland and Scotland. The immigrants are mainly younger persons in search of employment opportunities. There is at present no measure of the separate immigrant and emigrant components of the net gain from other parts of the United Kingdom. Over the six years from mid-1951 to mid-1957 the net gain averaged 19,000 and there has been comparatively little variation from year to year.

Net migration overseas (i.e. outside the United Kingdom) is the difference between two large opposing movements of the same order of size (about 300,000). A relatively small change in either movement can therefore produce a comparatively large variation in the balance. Generally the balance is outward and over the six years to which Table III relates it is estimated to have represented an average annual loss of 25,000 persons (10,000 males and 15,000 females). Taking migration overseas and within the United Kingdom together, therefore, the situation is that shown in the fourth main column of Table III, viz. large fluctuations from year to year due to the differing incidence of the two movements but, in the longer run, a rough balance between them. In general at the present time the *net* outward migration from England and Wales is almost a negligible quantity.

The effects of migration

Two questions remain, especially in relation to migration outside the United Kingdom. Is there a sufficiently large flow of migrants from England and Wales to the Commonwealth? Does the rough balance of inward and outward movement conceal a large selective loss of technological manpower—highly skilled emigrants being balanced by less skilled or unskilled immigrants?

On the first question the Overseas Migration Board stated in their Second Report (1956, Cmd. 9835): "We believe that for political, strategic and economic reasons it is important that migration from the United Kingdom to the Commonwealth should be maintained. We are not at the moment supplying the express needs of those members of the Commonwealth who would like to see at least half of their immigrants of British stock. We believe, however, that we should aim to supply the desired proportion of migrants, subject to the state of our economy and in particular to the overall employment position." Those requirements of the Commonwealth were estimated in the same Report to be between 150,000 and 200,000 people each year. Subsequently gross emigration to the Commonwealth increased in volume and in 1957 was exceptionally high (at about 175,000 to Canada, Australia, New Zealand, Union of South Africa and the Federation of Rhodesia and Nyasaland) and approached the required level. But there has also been latterly some contraction owing to changes in the economic situation of these countries so far as they have been affected by trade recession. In their Fourth Report (1958, Cmd. 619) the Board took account of these factors and reaffirmed the policy enunciated earlier.

With regard to the second question, the Overseas Migration Board also stated in their Fourth Report: "It would seem that while the inflow of workers may not generally match in skill the outflow, there is a much higher proportion of immigrants in the skilled and professional categories than is generally supposed". The Board do not feel that as yet there is anything in the net migration movement that need give cause for concern as to the effect upon manpower resources.

The various elements making up the total year to year movement in population are summarised in Table IV.

Table IV. Population changes mid-1951 to mid-1957, England and Wales

(Figures in thousands)

Year ended 30th June	be	pulation eginning corrected	as	Natural increase as estimated				igration estimated		Population at end as estimated and published		
	Persons	Males	Females	Persons	Males	Females	Persons	Males	Females	Persons	Males	Females
1954 1955	44,007 44,166 44,301 44,477 44,623 44,819	21,233 21,320 21,397 21,491 21,569 21,668	22,774 22,846 22,904 22,986 23,054 23,151	185 159 196 141 173 224	93 81 98 72 89 115	92 78 98 69 84 109	- 26 - 24 - 17 + 5 + 25	- 6 - 4 - 3 + 6 + 11 - 1	- 20	44,166 44,301 44,480 44,623 44,821 45,043	21,320 21,397 21,492 21,569 21,669 21,782	22,846 22,904 22,988 23,054 23,152 23,261

Changes in population structure

The trend of changes in the sex, marital condition and age structure of the population was discussed fully in the 1956 Commentary (pages 6-8) and it is not proposed to go into the same degree of detail now. The situation may be summarised in the following way.

Sex ratios

About 106 boys are born for every 100 girls, but the death rates for males are higher than those for females at all ages so that the number of males per thousand females falls from 1,053 (at mid-1957) at ages 0-4 to 999 at ages 30-34 (approximate equality), 770 at ages 60-64 and 568 at ages 75 and over (nearly twice as many women as men). At young ages falling mortality has narrowed the differential between the two sexes and has postponed the age-group in which the excess of males at birth is counterbalanced by excess male mortality from 5-9 in 1911 to 30-34 in 1957. At older ages the death rates for males have fallen much less than those for females, and consequently the excess of females at these ages has been increasing. At the 1911 Census there were 757 men for every 1,000 women at ages 65 and over; in 1957 there were only 648.

Age structure

Two main movements may be discerned. First, after a large rise in the latter part of the 19th century, a sharp fall in the flow of births occurred; so that whereas in 1911 the younger age-groups of the population represented larger generations than the older age-groups (giving an unduly youthful population with 30.6 per cent aged 0-14 and 5.2 per cent aged 65 and over), in 1957 the situation has been reversed, the older age-group representing larger generations than younger age-groups (22.8 per cent aged 0-14 and 11.7 per cent aged 65 and over). The population has "grown up" or "aged" and its age structure has become more typical of a population with a relatively level flow of births, in which one would expect to have at current mortality about one in seven persons aged 65 or over. Second, and more recently, there have been upward fluctuations in the annual flow of births. There was a particularly sharp rise at the end of World War II with a peak of 880,000 live births in 1947, compared with an average annual figure of 608,000 in 1936-40. Again after a decline, at first rapid then gradual and a little irregular to 668,000 in 1955, there was a rise to 723,000 in 1957. In consequence there have been large fluctuations in the size of the child population which have created obvious difficulties for education authorities. The proportion of the population in the 0-14 age-group which was 21.2 per cent in 1939 rose to 22.2 per cent in 1951 and 22.8 per cent in 1957.

The more recent effect of these two movements has been to increase the proportions of the population outside the working age range and thus to increase the general economic pressure of dependency. The ratio of the population in the 0-14 and 65 and over age-groups taken together to the population in the 15-64 age-group had decreased from 0.56 in 1911 to 0.46 in 1931 but in 1957 it had risen to 0.53.

Marital condition

As a result of the maintenance of relatively high marriage rates generally and in particular of an increase in the numbers of marriages at young ages, the proportion married has increased in all age-groups except the oldest where the effect of mortality in terminating marriages operates to a material extent. The following figures are illustrative:

Proportion married per 1,000 in each age-group

					Males		Females			
Age			1931 (census)	1951 (census)	1957 (estimate)	1931 (census)	1951 (census)	1957 (estimate)		
15-24 25-34 35-44 45-54 55-64 65 and 6	over			70 640 855 847 795 619	125 720 862 877 850 664	149 748 869 882 862 685	140 658 752 720 619 341	272 798 820 759 624 352	305 844 857 786 650 342	

In the youngest age-group 15–24 the proportion married has been, since 1931, doubled for men and more than doubled for women.

Future prospects

The long term population trend on certain assumptions about future fertility, mortality and migration (closely related to current conditions), is shown in Table A5 of Part II of the *Statistical Review* for 1957. By 1977 the total population will have increased from 45,043,000 to 48,284,000. The proportion aged 0-14 will then have fallen slightly to 21·6 per cent and the proportion aged 65 and over will have risen to 14·9; the ratio of the 0-14 and 65 and over population to that aged 15-64 will have risen from 0·53 in 1957 to 0·58. The number of men in the working age range 15-64 will increase from 14,459,000 in 1957 to 15,349,000 in 1977, but they will then represent a slightly smaller proportion of the total population, 31·8 per cent as compared with 32·1 per cent in 1957. The number of persons in the National Insurance pensions age-groups (men 65 and over, women 60 and over) will rise from 6,551,000 in 1957 to 8,664,000 in 1977 and to 9,092,000 in 1987, but by the end of the century (1997) there will be a slight decline to 8,779,000.

BIRTHS

Live births

The 723,381 live births which occurred in England and Wales in 1957 were the largest number since 1949, and the crude birth rate of 16·1 per 1,000 population was the highest since 1950. The numbers by legitimacy and the rates for the most recent years are summarised in Table V, extracted from the serial Tables B and C in Part II.

Table V. Live births by legitimacy and rate per 1,000 population, 1938, 1951-55, 1955, 1956 and 1957, England and Wales

Period		N	Rate per 1,000 population		
		Total	Legitimate	Illegitimate	Total
1938	, :	621 · 2	594.8	26.4	15.1
1951–55*		675 · 4	643 · 3	32.1	15.2
1955		667.8	636.7	31.1	15.0
1956	1 1	700.3	666 · 8	33.5	15.6
1957		723 · 4	688 · 8	34.6	16.1

^{*} Annual average.

The increase of $3 \cdot 3$ per cent over the previous year was not due to a similar change in the number of potential mothers. Until the late spring of 1955 the birth rate had been fairly constant since the end of the disturbance caused by the war, with some tendency to fall, but it has been rising ever since.

Table Q compares crude birth rates for some of the more developed countries of the world which have reliable birth registration statistics. In most of these countries the birth rate in recent years has been higher than before the war. Only in a few of them has it been rising during the last few years as in Britain: Austria, Germany, Spain and Switzerland are the clearer examples. Table Q takes no account of areas in Asia, Africa and Latin America where the population is growing rapidly and birth rates are known to be high, but for which reliable annual series are not available.

Crude birth rates, however, do not allow a true appreciation of current fertility trends and levels for reasons which are explained below, and they should be regarded as only rough guides.

Birth rates per 1,000 women aged 15 to 44

As a first step to a more penetrating analysis the births may be related to the number of women of childbearing age instead of to the total population. This age-range is conventionally taken as 15–44. Next, legitimate and illegitimate births separately may be related to the married and unmarried women in that range respectively. Such rates are presented in Table VI together with ratios comparing them with the rates for 1938.

Table VI. Live birth rates per 1,000 women aged 15-44 by legitimacy, 1841 to 1957, England and Wales

The ratios were calculated before rounding off the rates

		Rate		Ratio to	o 1938 (taken	as 100)
Year	All live births per 1,000 women aged 15-44	Legitimate live births per 1,000 married women aged 15-44	Illegitimate live births per 1,000 unmarried women aged 15–44	A11	Legitimate	Illegitimate
			3-year average	S		
1841	148.3		l I	239		
1851	149.8	294.9	19.4	241	268	337
1861	151 · 1	288 · 1	18.9	243	262	328
1871	155.7	296.3	17.2	250	269	298
1881	147.7	286.0	14.1	238	260	245
1891	129 · 7	263.9	10.5	209	240	182
1901	114.8	235.5	8.5	185	214	147
1911	98.3	197.4	7.9	158	179	138
1923*	79.1	155.2	6.5	127	141	112
1933*	61 · 1	114.0	5.5	98	104	., 95
1951	72.0	105 · 8	10.0	116	96	174
		Individua	al years or annua	al averages		
1938	62.2	110.0	5.8	100	100	100
	02.2	110.0	2.0	100	100	100
1939-	71.4	110 6	10.5	115	100	100
49	71.4	112.6	10.5	115	102	182
1950-		405 5	40.4	1400	2.5	177
54	72.5	105 · 7	10.1	117	96	176
1955	72.8	103 · 7	10.3	117	s 94 .	. 178
1956	77.0	108 · 2	11.4	124	98	199
1957	80.0	111.5	12.1	129	101	210

^{* 1923 (}i.e., 1922-24) has been selected since in 1920 and 1921 conditions were still abnormal after the First World War, and 1933 (1932-34) because it marked the low point in numbers of births in the inter-war period.

The total rate rose in 1957 to the level of the early nineteen twenties and was 29 per cent higher than in 1938. (In the crude rate this change is obscured by the fall in the proportion of women aged 15-44 in the total population since 1938.) But the legitimate rate merely regained the 1938 level, and although the illegitimate rate was about twice as large as before the war it is clear that the bulk of the increase in the total rate since then is due to the larger proportion of women in this age-range who are married. This rise can be seen from the following statement and from Table XXVI on page 38.

Year	Proportion married among women aged 15-44 (per thousand)	Index (1938=100)
1938	541	100
1951	646	119
1956	677	125
1957	683	126

Reproduction rates

Table VI illustrates the changes in the annual number of births per woman in the reproductive age-range over the last hundred years. The picture which it gives is not very much affected by changes in the age distribution of women within this range.

Table VII. Gross and net reproduction rates, 1841-1957, England and Wales

Year	G.R.R.	N.R.R.	Year	G.R.R.	N.R.R.		
3-:	year averag	es	Individual years or annual averages				
1841 1851 1861 1871 1881 1891 1901 1911 1923 1933	2·237 2·264 2·277 2·356 2·252 1·973 1·702 1·428 1·153 0·862	1·349 1·381 1·427 1·511 1·511 1·369 1·238 1·121 0·966 0·756	1938	0·897 1·031 1·061 1·077 1·146 1·190	0·805 0·945 1·015 1·038 1·107 1·149		

This can be seen from the gross reproduction rates in Table VII and from the following comparison:

Index Numbers (1938 = 100)

Period	All live births per 1,000 women aged 15-44	Gross reproduction rate
1840-42	239	249 4
1900-02 1922-24	185 127	190 129
1938 1939–49	100 115	100 115
1950-54	117	118
1957	129	133

The gross reproduction rate is a measure of annual fertility which is standardised for the detailed sex-age composition of the population. It is calculated by summing the female age fertility rates (live female births per woman in each age-group) multiplied by the width of the age-groups used.

The net reproduction rates also shown in Table VII differ from the gross rates by being discounted for the mortality of the period. At one time the N.R.R. was widely used, not as an index of the births and deaths of the year, but as a measure of the implications of current family building habits and mortality for the ultimate replacement of the population. In this sense it is now discredited, because it would imply unrealistic and even inconsistent assumptions, at least in societies limiting their families. It is subject to many of the temporary influences which affect annual numbers of births. The figures are given here for the convenience of users who like to keep serial records in this form up to date.

The question of replacement is discussed on pages 19-20.

Age, duration and parity

Tabulation basis

Fertility tabulations can be made on the basis of either live births or maternities, and which is most convenient depends on the use to which they are put. The tables in Part II distinguish so many characteristics, including legitimacy, age of mother, duration of marriage and number of previous children, that it is not practical or economic to provide completely parallel classifications of births and maternities.

Full analyses by legitimacy and mother's age are given for both live births and maternities (Tables AA to FF and TT), but the legitimate fertility tabulations involving duration of marriage or number of previous children are restricted to maternities (Tables HH to MM and QQ). The legitimate fertility rates by age of mother and year and duration of marriage (Table OO) were also in terms of maternities until 1955; beginning in 1956 they have been converted to a live birth basis by factors of the kind shown in Table VIII. Table PP (mean family size by year of marriage) has always related to live births.

Maternities are slightly greater in number than the corresponding live births (stillbirths included in the former exceeding the multiple births excluded), but the excess is small and the maternity statistics can be converted to live birth figures with sufficient accuracy for most purposes by means of the appropriate ratios of live births to maternities. Ratios for 1938 to 1956 have appeared in previous Commentaries and for 1957 they are shown in Table VIII.

Table VIII. Ratio of legitimate live births to legitimate maternities by age of mother at maternity, 1957, England and Wales

Age of mother at maternity										
All ages	Under 20	20-	25-	30-	35-	40 and over				
0.990	0.988	0.991	0.993	0.992	0.986	0.965				

The tables distinguishing duration of marriage and numbers of previous children (Tables HH to QQ) are confined to women married once only. Comparable statistics for women married more than once and for all married women, both classified by duration of *current* marriage, relating to 1952, were published in the 1955 Commentary. Ratios comparing the three sets of fertility rates were also given there (pages 30–33).

Incomplete statement at registration

The annual statistics have been slightly incomplete through the occasional failure to obtain at birth registration a record of the mother's age or duration of marriage or the number of her previous children. The proportion of "not stated" cases of various types in the records for women married once only is shown in Table QQ. For all types of omission combined it is about ½ per cent.

As the number of omissions is so small and no severe bias in them is suspected the "not stated" cases have been proportionally distributed among the "stated" in Tables AA, HH, II, LL and MM; for that form of presentation is more convenient for most users.

Illegitimate births and pre-marital conceptions

35,098 of the 730,524 maternities occurring in 1957 were illegitimate, a proportion of 4·8 per cent. Tables B and C of Part II contain serial records of the numbers of births and of rates since 1851; numbers of maternities from 1938 onwards are shown in column 2 of Table IX.

Table IX. Illegitimate maternities and pre-maritally conceived legitimate maternities, 1938 to 1957, England and Wales

	Illegitimate	Pre-maritally conceived	Total materni extra-ma		Percentage of extra-mari- tally conceived maternities
Year	maternities	legitimate maternities*	Numbers	Percentage of all maternities	legitimated by marriage of parents before birth of child
1	2	3	4	5	6
1938	27,440	64,530	91,970	14.4	70.2
1939	26,569	60,346	86,915	13.8	69.4
1940	26,574	56,644	83,218	13.7	: 68 · 1
1941	32,179	43,363	75,542	12.7	57 · 4
1942	37,597	40,705	78,302	11.8	52.0
1943	44,881	37,271	82,152	11.8	45 · 4
1944	56,477	37,746	94,223	12.3	40.1
1945	64,743	38,176	102,919	14.9	37.1
1946	55,138	43,488	98,626	11.8	44.1
1947	47,491	59,633	107,124	12.0	55.7
1948	42,402	62,304	104,706	13.4	59.5
1949	37,554	59,185	96,739	13.1	61.2
1950	35,816	54,188	90,004	12.8	60.2
1951	33,444	50,477	83,921	12.3	60 · 1
1952	33,088	50,740	83,828	12.3	60.5
1953	33,083	50,266	83,349	12.1	60.3
1954	32,128	50,901	83,029	12.2	61.3
1955	31,649	50,638	82,287	12.2	61.5
1956	34,113	54,895	89,008	12.6	61.7
1957	35,098	56,203	91,301	12.5	61.6

^{*} From 1952 onwards the figures relate to women married once only.

Legitimate maternities conceived before marriage and illegitimate maternities are complementary and should be considered together. This is clear from the figures for the period of the Second World War, when the number of illegitimate maternities rose and that of pre-maritally conceived legitimate maternities fell, leaving the combined number, and still more the combined proportion of all maternities, relatively stable.

Column 3 of Table IX shows the number of pre-maritally conceived legitimate maternities, taken as equivalent approximately to those at marriage duration under 9 months from 1952 onwards, and under about $8\frac{1}{2}$ months before then. The combined total of extra-maritally conceived maternities is expressed as a percentage of all maternities in column 5. At about an eighth it has been slightly lower in recent years than in 1938. The effect of the change in duration tabulation in 1952 is indicated by the fact that if the 1951 figures are adjusted to the new basis by adding half a month's maternities the percentage for that year in column 5 is raised from $12 \cdot 3$ to $13 \cdot 0$.

In Table X extra-maritally conceived maternities are related to the population at risk, viz., unmarried women together with the mothers of legitimately born children conceived before marriage. To facilitate the comparison of recent rates with those before 1952 an additional column for 1951 has been provided showing the rates that would have been produced in that year on the tabulation basis adopted in 1952.

Table X. Extra-maritally conceived maternities per 1,000 unmarried women (see text), 1938 to 1957, England and Wales

Age of mother	1938	1939	1940–45 average	1946-50 average	1951 1951* (adjuste		1956	1957
15	12·0 37·1 27·6 16·0 10·6 4·2	12·1 35·6 26·6 15·8 10·0 4·0	11·1 36·5 34·5 23·2 13·0 5·2	13·8 46·9 45·1 33·0 18·2 5·9	14·6 15·0 42·8 46·3 38·7 41·6 30·6 32·1 17·0 17·5 5·7 5·8	16·6 50·2 41·4 29·2 16·7 5·7	19·2 56·0 44·5 33·7 18·5 6·0	20·5 58·1 47·7 35·9 19·8 6·2
15–44	19.8	19.0	20.8	26.8	24.7 26.2	26.7	29.8	31.3
Ratio to 1938:								
Crude	1.00	0.96	1.05	1.35	1.25 1.32	1.35	1.51	1.58
Standardised by age	1.00	0.98	1.07	1.38	1.29 1.36	1 · 43	1.60	1.68

^{*} Adjusted on 1952 duration basis.

The highest rates are for women aged 20–24, followed by those aged 25–29. The rates are appreciably higher than before the war, but it should be noted that this is not true of the total numbers of such maternities, which are slightly lower—the proportion of unmarried persons in the younger age-groups of the population has fallen greatly.

There is a more detailed discussion on pages 19-21 of the 1955 Commentary.

Legitimate births and fertility

Age of mother and duration of marriage

The total numbers of legitimate births and the corresponding rates per 1,000 married women aged 15-44 were shown above in Tables V and VI. But fertility declines with advancing age of mother and with lengthening duration of marriage, and for a proper assessment of it these factors must be taken into account.

Table II in Part II classifies the year's legitimate maternities (to women married once only) by age of mother at maternity and the duration of her marriage. Corresponding rates, based on the estimated years of married life spent in the calendar year as shown in Table JJ, are given in Table KK.†

An alternative classification of the maternities, by age at marriage and year of marriage, is given in Table MM[‡]; the corresponding mean numbers exposed to risk are given in Table NN and rates in Table OO. These last two tables were modified in 1956 from the form used in 1952 to 1955. They now relate to the integral duration intervals (from one wedding anniversary to the next)

[†] To obtain equivalent birth rates they should be multiplied by the appropriate ratio of births to maternities.

[†] Table MM also shows number of previous children.

ended in e.g. 1957, spanning two calendar years of risk, instead of an integral calendar year of risk, spanning two duration intervals. Table OO was also adjusted from maternity rates to live birth or fertility rates. It continues Tables 2(a)-(g) of Appendix A to the 1955 Commentary. Table PP now shows mean family size (liveborn children) at integral durations (wedding anniversaries) reached in the calendar year, by calendar year of marriage and age at marriage, and continues Tables 1(a)-(g) of the same Appendix.

The rates combining marriage duration with age at maternity are summarised in Table XI. It shows the typical pattern of decline with increasing age, as well as with each year of duration after the first. The incidence of pre-marital conceptions, conventionally measured by the rates for durations under 9 months, is also highest at ages under 20 (where the maternity rate is as high as for the remaining quarter of the first year), falls steeply to the next age-group (20–24) and more slowly thereafter.

Table XI. Legitimate maternity rates for women married once only by age and marriage duration, 1952 to 1957, England and Wales*

				M	larriage	duratio	n (com	pleted ye	ears)			
Age of married woman	Year	All dura- tions	0-	1-	2-	3-	4-	5-9	10–14	15–19	20–24	25 and over
All ages under 50	1952–54 1955 1956 1957	·089 ·088 ·092 ·094	·278 ·279 ·292 ·300	·258 ·257 ·267 ·274	·222 ·219 ·230 ·237	·203 ·203 ·215 ·220	·181 ·186 ·192 ·201	·115 ·115 ·122 ·127	·049 ·047 ·051 ·053	·019 ·019 ·020 ·021	·007 ·006 ·006 ·006	·001 ·001 ·001 ·001
Under 20 {	1952–54 1955 1956 1957	·408 ·391 ·406 ·408	·457 ·433 ·454 ·453	·311 ·305 ·314 ·329	·323 ·310 ·315 ·317	·354 ·350 ·333 ·356	=		=	=	=	gendant managen managen
20-24 {	1952–54 1955 1956 1957	·252 ·249 ·259 ·263	·272 ·269 ·277 ·281	·278 ·273 ·283 ·288	·247 ·238 ·250 ·254	·235 ·233 ·245 ·248	·220 ·221 ·229 ·234	·200 ·207 ·217 ·218		=	=	-
25-29 {	1952–54 1955 1956 1957	·171 ·171 ·180 ·186	·236 ·243 ·247 ·265	·247 ·244 ·255 ·259	·215 ·217 ·226 ·235	·205 ·203 ·216 ·222	·189 ·194 ·199 ·211	·140 ·143 ·152 ·157	·110 ·102 ·113 ·118	=		
30–34{	1952–54 1955 1956 1957	·101 ·096 ·100 ·103	·229 ·234 ·247 ·257	·236 ·243 ·245 ·255	·201 ·197 ·210 ·218	·185 ·179 ·190 ·192	·167 ·167 ·173 ·180	·107 ·104 ·110 ·114	·070 ·063 ·066 ·069	·065 ·062 ·063 ·062	=	_
35-39{	1952–54 1955 1956 1957	·050 ·049 ·050 ·051	·168 ·166 ·175 ·184	·181 ·190 ·195 ·200	·148 ·150 ·152 ·158	·134 ·135 ·144 ·144	·126 ·128 ·132 ·130	·078 ·080 ·082 ·085	·043 ·042 ·045 ·046	·035 ·035 ·035 ·035	·039 ·035 ·035 ·036	
40-44{	1952–54 1955 1956 1957	·015 ·014 ·014 ·014	·053 ·055 ·054 ·067	·064 ·066 ·075 ·068	·055 ·052 ·059 ·056	·050 ·050 ·049 ·048	·043 ·046 ·042 ·044	·029 ·030 ·030 ·031	·017 ·016 ·017 ·018	·012 ·012 ·012 ·012	·012 ·011 ·010 ·010	·009 ·008 ·008 ·008
45-49{	1952–54 1955 1956 1957	·001 ·001 ·001 ·001	·005 ·002 ·003 ·001	·004 ·002 ·004 ·004	·004 ·004 ·005 ·003	·003 ·004 ·003 ·003	·003 ·003 ·002 ·002	·002 ·003 ·002 ·002	·002 ·002 ·001 ·002	·001 ·001 ·001 ·001	·001 ·001 ·001 ·001	·001 ·001 ·001 ·001

^{*} In calculating these rates the few maternities to women whose stated age and marriage duration implied an age at marriage below the legal minimum of 16 have been excluded.

[†] The apparent exception at the longest durations within some of the lines, mainly that for age-group under 20, is due to the fact that as it approaches the right-hand edge of the table the group becomes confined to fewer single years of age, corresponding to the very youngest marriage ages. In this part of a detailed table by single years of age, fertility rates change more rapidly with marriage age than with duration, and the number of women at the individual ages making up the group increases very rapidly with age.

Table XI shows that the increase in maternity rates between 1956 and 1957 affected nearly all age and duration groups where the number of maternities is large enough for chance fluctuations not to obscure the picture. In general the increases between 1956 and 1957 were not as great as those between 1955 and 1956.

Cohort analysis

An appreciation of fertility trends needs more than the examination of annual fertility rates. It is necessary to take a group of people, such as those born or married in a particular period, and to follow them through their reproductive lives, either by detailed records or by statistical computation which approximates to the same results. Such a group is generally called a *cohort*, and the study of fertility records in this form, *cohort analysis*. In this country the two types of group mentioned are often distinguished by referring to those born in the same period as a *generation*, and reserving the term *cohort* for those married in the same time interval.

Cohort analysis avoids the misleading impression made by the births of any one period such as a year when either family size or the timing of births is changing.

Tables of mean family sizes and fertility rates of women married once only were computed for each marriage cohort since 1920 and published in Appendix A of the 1955 Commentary. The mean family size tables show the average number of liveborn children reached after each single year of marriage duration. The fertility rate tables show the average annual additions by which family size has been built up. Both sets give figures for all women married under the age of 45 combined and for the separate marriage age-groups.* The series is being kept up to date by Tables OO and PP.

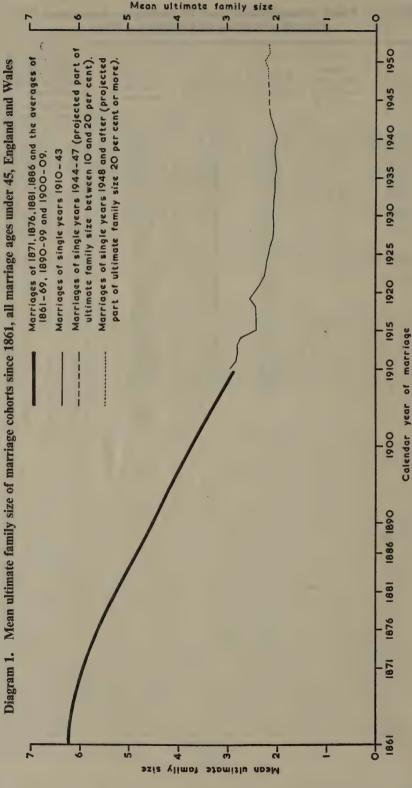
The figures are discussed in detail in the 1951 Census Fertility Report.

Table XII and Diagram 1 show the mean ultimate family size of marriage cohorts since 1861. The earlier figures have been taken from data obtained at the 1911 Census of Population and the 1946 Sample Family Census of the Royal Commission on Population. Those from 1930 onwards have been projected, using alternative assumptions, from the position reached by the cohorts concerned in 1957. The first projected series assumes future fertility rates by marriage age and duration equal to the mean of those experienced in 1951-55, and the other (not shown in the diagram) uses similar rates equal to the mean of those experienced in 1956-57. The two assumptions give figures for mean ultimate family size which differ only slightly. The figures based on 1956-57 fertility are lower than the 1951-55 based figures for marriage cohorts before 1950 and higher for the 1951 and 1952 cohorts. This reflects the differences in the two sets of duration fertility rates as shown by the 20-24 age-group whose details appear below. The 1956-57 rates for this age-group are higher than those for 1951-55 at durations 0 to 9 but slightly lower for the longer marriage durations. On either basis the projected values are unlikely to be appreciably in error for marriages of 1941 or earlier. The element of projection (though not of course the margin of error) amounts to between 10 and 20 per cent of the total for marriages of 1944-47 and to 20 per cent or more from 1948 onwards when the figures gradually become more speculative.

^{*} For the technical problems involved and the methods used see Census 1951, England and Wales: Fertility Report, Chapter IV, Appendix 1.

Table XII. Mean ultimate family size of marriage cohorts since 1861, all marriage ages under 45, England and Wales

Calendar year of marriage	Mean ultimate family size (actual)	Calendar year of marriage	Mean ultimate family size (actual)	Calendar year of marriage	Mean ultimate family size projected using fertility rates for			
					1951–55	1956–57		
1861–69	6.16	1910 1911	2·95 2·83	1930 1931	2·09 2·08	2·09 2·08		
1871	5.94	1912 1913	2·80 2·81	1932 1933	2·08 2·06	2·08 2·06		
1876	5.62	1914	2.73	1934	2.04	2.04		
1881	5.27	1915 1916	2·43 2·43	1935 1936	2·04 2·01	2·04 2·01		
1886	4.81	1917 1918	2·44 2·45	1937	2.03	2.02		
1890–99	4.13	1919	2.43	1938 1939	2·06 2·05	2·06 2·05		
1900–09	3.30	1920 1921 1922 1923 1924	2·47 2·38 2·28 2·23 2·21	1940 1941 1942 1943 1944	2·00 2·04 2·09 2·14 2·18	1·99 2·03 2·07 2·13 2·17		
	•	1925 1926 1927 1928 1929	2·17 2·14 2·09 2·08 2·08	1945 1946 1947 1948 1949	2·18 2·18 2·19 2·19 2·20	2·16 2·17 2·17 2·18 2·19		
				1950 1951 1952	2·26 2·16 2·18	2·26 2·18 2·21		



Sums of fertility rates Marriage age 20-24

Duration of marriage (completed years)	Mean 1951-55	1956–57	Difference
All durations	2.175	2.265	+ · 090
Before marriage	0.033 *	0.033*	(-)
0-4	1·132 0·596 0·273 0·114 0·027	1·183 0·651 0·271 0·105 0·022	+·051 +·055 -·002 -·009 -·005

^{*} Assumed equal to marriages of 1945.

It is still too soon to say whether the recent rise in fertility rates is part of an upward trend in family size or merely reflects a change, not necessarily permanent, in the timing of births within marriage.

Generation replacement rates.—Earlier in this chapter the conventional net reproduction rates have been shown and their limitations mentioned. Briefly, they are a convenient summary of the events of a year, but an unsatisfactory guide to long term prospects. They may be improved by taking explicit account, in their calculation, of marriage as well as of fertility and mortality. But even reproduction rates refined in this way, if they relate to a year or similar period, are subject to distortions and fluctuations when the time-pattern of family building is changing, though ultimate family size may be constant.

It is a different matter if cohort analysis has indicated that certain sets of fertility and marriage rates represent a stable pattern which may reasonably be taken to summarise the habits of the generations and marriage cohorts now passing through the reproductive period. Such seems to have been the case in recent years, at least before the rise in births since 1956. A replacement rate was therefore calculated on the basis of the age-duration fertility rates and the marriage rates of 1951-55, and the mortality experience of 1950-52 as represented by the English Life Tables No. 11†, which estimated the ultimate implications of the persistence of current habits for the replacement of the population. It came to 1.01 for females. The male rate^{\ddagger}, at about 1.06, was not very different. Using the marriage rates of 1957 would raise these replacement rates to about 1.07 for females and 1.11 for males. If marriage rates continue to rise, or if the fertility rates of 1957 were to continue indefinitely, there would be a further moderate increase. In short, in a population which consistently experienced the present high proportions marrying and low mortality, the family size indicated by current trends would be sufficient for replacement, perhaps with a small margin to spare.

It should be noted, however, that these figures result from a hypothetical calculation summarising current rates which have not yet been experienced throughout the lifetime of any single generation and represent a more favourable experience than that of the generations now nearing completion of their families. This is particularly true of mortality. The replacement rates of actual genera-

[†] The Registrar General's Decennial Supplement, England and Wales, 1951: Life Tables. London: Her Majesty's Stationery Office, 1957, price 3s. net.

t i.e., that calculated using the marriage rates of men.

tions since 1838–43 were shown and discussed in the 1956 Commentary (pages 23–24). The number of female births to the earliest of these generations of women, the last before the spread of family limitation, was about 40 per cent above replacement level. Then it declined until, for the 1903–08 generation, it was 30 per cent short of the number needed for replacement. Since then it has been rising vigorously and, if present trends continue, will reach replacement with the generation born in 1943–48, a hundred years after the decline set in (or a little earlier if marriage rates continue above the 1951–55 level).

But the rise has been slowing down, and there are no clear indications at present that it will carry the rate very much higher than unity. The reason is that the greater part of the recovery in the replacement rates since the 1903–08 generation has been due to improved mortality (mainly in infancy) and higher marriage rates, and in both these respects there is now relatively little scope for further improvement.

Birth order

The legitimate maternities of the year are tabulated by birth order as well as mother's age at maternity in Table HH. In 1957, 40 per cent of the total were first births, 30 per cent second, 15 per cent third and 15 per cent fourth or later births. In Table LL the first maternities among these are further subdivided by duration of marriage.

Table MM gives a threefold classification by mother's age at marriage, duration of marriage and birth order. It makes it possible to investigate the share of births of different orders in the recent rise in fertility rates. True birth order rates would relate, say, the second maternities of mothers married in 1953 at age 20-24 to the estimated number of women in that group who have so far had one child. But it has not so far been possible to carry out the considerable work of making a series of such estimates in line with those of mean family size in the 1955 Commentary. In the meantime a series of rates has been computed relating the live births* of each calendar year from 1952 to 1957, classified by birth order, to all the married women of the same marriage year and marriage age as the mothers concerned. In effect the marriage age / cohort rates of Table OO (style of 1952-55, but live births) have been subdivided by birth order in proportion to Table MM. The rates for 1957 are shown in Appendix A on pages 224–225 and those for 1952–56 were published in Appendix A to the 1956 Commentary. The rates for all ages under 45 combined are means of the age rates weighted by the original number of spinster marriages in each cohort and age-group. Index numbers of these all-ages rates are given in Table XIII.

^{*} Maternities converted by the appropriate coefficients.

Table XIII. Ratios of fertility rates by birth order (live births per woman married once only, irrespective of parity) to those of 1952 taken as 100: 1952 to 1957, England and Wales

All marriage ages under 45

Note. Calculated from rates in Appendix A for 1957, and Appendix A of the 1956 Commentary (1952–56), taken to 4 or 5 decimal places.

24	01.1		, runen so	4 or 5 ae			Idnam	
Mean marriage duration	Calendar year of	Calendar year of	- T	1	ber of pro	1		4 and
(years)	marriage	maternity	Total	0	1	2	3	over
13	1952 1953 1954 1955 1956 1957	1952 1953 1954 1955 1956 1957	100 102 103 102 106 110			100 102 103 102 106 110		
1	1951 1952 1953 1954 1955 1956	1952 1953 1954 1955 1956 1957	100 102 102 102 102 106 109	100 102 102 102 102 105 108		10 11 11 11	00 00 08 10 14 18 28	
2	1950 1951 1952 1953 1954 1955	1952 1953 1954 1955 1956 1957	100 97 95 95 99 102	100 98 94 93 96 98	100 96 99 101 104 111	:	100 88 83 88 92 98	
3	1949 1950 1951 1952 1953 1954	1952 1953 1954 1955 1956 1957	100 107 102 103 108 109	100 112 107 104 111 110	100 107 101 104 109 111		100 96 88 92 94 100	
4	1948 1949 1950 1951 1952 1953	1952 1953 1954 1955 1956 1957	100 104 108 103 110 114	100 107 112 110 117 123	100 103 108 104 110 113	100 101 102 96 102 107	10 9 9 8 8 8	6 5 2 9
5	1947 1948 1949 1950 1951 1952	1952 1953 1954 1955 1956 1957	100 106 106 114 112 117	100 114 117 127 134 140	100 106 103 112 111 114	100 99 102 108 101 107	100 100 100 100 99 100	3 2 6 9
6	1946 1947 1948 1949 1950 1951	1952 1953 1954 1955 1956 1957	100 104 105 105 120 117	100 112 123 125 151 156	100 107 104 105 119 116	100 99 98 96 111 106	100 98 98 100 108 98	100 95 104 107 114 101

Mean	Calendar	Calendar	able AII		nber of pr	evious chi	ildren	
marriage duration (years)	year of marriage	year of maternity	Total	0	1	2	3	4 and over
7	1945	1952	100	100	100	100	100	100
	1946	1953	104	105	100	104	105	118
	1947	1954	104	113	99	101	106	121
	1948	1955	103	123	99	96	103	122
	1949	1956	108	131	104	100	108	123
	1950	1957	125	159	119	115	120	141
8	1944	1952	100	100	100	100	100	100
	1945	1953	104	110	105	106	102	94
	1946	1954	105	118	100	103	110	109
	1947	1955	104	122	99	99	107	114
	1948	1956	111	146	107	103	108	119
	1949	1957	114	154	110	105	111	123
9	1943	1952	100	100	100	100	100	100
	1944	1953	100	89	98	100	102	108
	1945	1954	100	100	97	99	101	108
	1946	1955	99	93	91	97	104	117
	1947	1956	105	115	101	98	107	122
	1948	1957	111	131	104	104	108	131
10	1942	1952	100	100	100	100	100	100
	1943	1953	100	92	93	98	111	111
	1944	1954	96	83	83	96	109	119
	1945	1955	93	92	82	90	103	114
	1946	1956	99	95	84	92	111	132
	1947	1957	105	111	91	96	113	141
11	1941	1952	100	100	100	100	100	100
	1942	1953	106	96	105	108	107	108
	1943	1954	100	83	89	97	109	121
	1944	1955	96	81	79	92	106	125
	1945	1956	100	85	85	96	108	129
	1946	1957	103	89	83	97	112	139
12	1940 1941 1942 1943 1944 1945	1952 1953 1954 1955 1956 1957	100 104 104 99 102 105		00 00 99 98 84 81 81	100 105 103 95 96 99	100 104 109 104 110 109	100 109 111 123 136 135
13	1939 1940 1941 1942 1943 1944	1952 1953 1954 1955 1956 1957	100 101 104 102 103 106	111111111111111111111111111111111111111	00 11 10 04 00 97	100 106 109 102 98 102	100 99 103 105 105 107	100 87 93 98 109 119
14	1938 1939 1940 1941 1942 1943	1952 1953 1954 1955 1956 1957	100 107 105 106 114 115	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	00 11 19 14 20	100 122 123 123 129 124	100 110 109 106 115 118	100 93 84 89 100 109

Table XIII—continued

			able All	1—conti				
Mean marriage	Calendar year	Calendar year		Nun	nber of pr	evious chi	ildren	
duration (years)	of marriage	of maternity	Total	0	1	2	3	4 and over
15	1937 1938 1939 1940 1941 1942	1952 1953 1954 1955 1956 1957	100 98 101 104 107 116	10 9 10 11 11 13	2 0 8 6	100 106 115 123 123 130	100 96 109 107 112 120	100 96 91 86 93 99
16	1936 1937 1938 1939 1940 1941	1952 1953 1954 1955 1956 1957	100 100 99 103 103 109	10 9 8 10 11	2 9 3 4	100 102 115 119 130 134	100 113 107 113 113 120	100 97 93 93 84 91
17	1935 1936 1937 1938 1939 1940	1952 1953 1954 1955 1956 1957	100 97 96 93 104 105		100 100 95 93 116 131		100 100 103 103 119 119	100 95 94 90 91 85
18	1934 1935 1936 1937 1938 1939	1952 1953 1954 1955 1956 1957	100 99 99 96 95 107	*	100 100 107 98 95 124			000 98 96 95 95 900
19	1933 1934 1935 1936 1937 1938	1952 1953 1954 1955 1956 1957	100 99 97 94 96 99		10 10 10 10 10 10 10	7 7 7 9	1.04 1.05	100 95 92 86 88 87
20	1932 1933 1934 1935 1936 1937	1952 1953 1954 1955 1956 1957	100 96 91 88 81 83			100 96 91 88 81 83		
21 .	1931 1932 1933 1934 1935 1936	1952 1953 1954 1955 1956 1957	100 107 97 84 83 81			100 107 97 84 83 81		
22	1930 1931 1932 1933 1934 1935	1952 1953 1954 1955 1956 1957	100 93 102 84 81 77			100 93 102 84 81 77		

When the births are so finely subdivided there are bound to be many small numbers subject to chance fluctuations. In Table XIII births of different orders have therefore been grouped together in such a way that the corresponding cells in Table MM for 1957 contained at least 1,000 maternities. Even so there are quite a few cells where no significance can be attached to very small movements in the index numbers.

It is clear from Table XIII that the rise in rates in 1957 compared with 1956 affected not only all durations up to about 20 years, but also all birth orders. Taken by and large, moreover, there does not seem to have been much variation between different birth orders in the proportional increases of rates. The picture is similar for individual marriage age-groups under 35; after that age the data are rather sparse and the movement of the rates shows no consistent change.

The sustained rise in first birth rates within each duration from 4 to 8 years is likely to be due to the large number of births which took place just after the war: if women married then had their first children more quickly after marriage than later cohorts fewer of them would be still childless at duration 5 or 6 (say). That would cause their rates in Appendix A of this and the 1956 volume to be smaller than those of the following cohorts, even if their true birth order rates at those durations were the same.

Keeping this qualification in mind it may be noted that over the period as a whole there seems to have been some tendency for first and fourth and higher order birth rates to rise, but not for second and third birth rates. This applies to the first ten or eleven years of marriage only.

Birth occurrences and registration time lag

The statutory period allowed for registration of either a live birth or a still-birth is 42 days and as a consequence there has generally been an appreciable time lag between the occurrence of a birth and its registration. In the past the time lag has been found to decrease markedly after the introduction of an incentive to register earlier, for example, by the dependence of the issue of food ration books and Family Allowances upon birth registration. Conversely, registration has become more tardy when such incentives have been removed or have become less compelling. In 1957 the average time lag between occurrence of a birth and registration was about twelve days.

The importance of time lags arises from their influence on the difference between the number of births registered in a period and the number occurring in that period. Occurrences are usually the more appropriate statistics for fertility measurement, but registrations are available sooner. The difference between the two is influenced by the time lag in two ways. A difference will occur, even though the time lag be constant, if birth incidence is changing; and also, even though birth incidence be constant, if the time lag is changing. In practice both factors operate. The combined effect of these factors may be measured by the ratio of occurrences to registrations, which in 1957 was 1.0001.

Seasonal incidence of births

The number of live births is normally greatest in the second quarter of the year and smallest in the fourth quarter. This is illustrated by Table XIV, based on Table D in Part II. Table XIV also shows that the seasonal cycle is similar for legitimate and illegitimate births, but usually with somewhat wider swings for the illegitimate.

Table XIV. Ratio of quarterly births to average quarterly births taken as 100: 1939, 1949-53 and 1957, England and Wales

Period	193	39 1949-	53 1957					
		avera	ge					
		All live b	irths					
1st Quarter	10	00 102	100					
2nd ,,	10		104					
3rd ,,	10		. 99					
4th ,,	9	93	97					
Year	40	0 400	400					
		Legitimate live births						
1st Quarter	1 9	9 102	1 100					
2nd ,,	10		104					
3rd ,,	10		99					
4th ,,	9	4 93	97					
Year	40	0 400	400					
		Illegitimate liv	ve births					
1st Quarter	1 10	5 104	101					
2nd ,,	10		103					
3rd ,,	10	0 98	99					
4th ,,	. 8	8 91	: 97					
Year	40	0 400	400					
		Legitimate st	illbirths					
1st Quarter	10-		103					
2nd ,,	104		102					
3rd ,,	9		98					
4th ,,	9	4 95	97					
Year	400	0 400	400					

The seasonal variation in the number of stillbirths is the product of two factors, the variation of births and that of stillbirth rates. The first of these has much the greater influence, but operates something like a month in advance because the average period of gestation is shorter for stillbirths than for live births. Hence the distribution resembles that of live births, but anticipates it slightly, with the result that the first quarter has the largest numbers.

The monthly birth figures in Table TT allow a more detailed study. The varying length of calendar months can be allowed for by using daily averages. The ratios of these averages in each month to those for the calendar year are given in Table XV.

Table XV. Monthly birth incidence in relation to the average for the calendar year, 1939, 1951-54, 1956 and 1957, England and Wales

Month		Ratio of monthly daily average to that of the calendar year taken as 1,000											
of occurrence		Legitimate live births				Illegitimate live births				Legitimate stillbirths			
	1939	1951–54	1956	1957	1939	1951–54	1956	1957	1939	1951–54	1956	1957	
January February March	980	990	989	975	1,076	994	971	974	1,043	1,043	987	1,024	
	995	1,038	1,016	1,029	1,041	1,053	975	1,058	1,045	1,081	1,130	1,064	
	1,041	1,066	1,080	1,054	1,080	1,082	1,050	1,029	1,078	1,076	1,082	1,048	
April	1,073	1,060	1,066	1,044	1,046	1,088	1,085	1,044	1,068	1,080	1,031	1,042	
May	1,078	1,072	1,043	1,055	1,138	1,096	1,045	1,011	1,060	1,031	1,052	1,084	
June	1,043	1,037	1,012	1,025	1,044	1,060	1,079	1,047	1,002	993	1,005	951	
July	1,025	1,011	1,004	975	1,038	1,018	989	993	984	963	961	1,001	
August	985	969	968	964	960	935	967	966	972	940	990	954	
September	1,004	992	1,002	1,009	969	969	975	988	963	933	934	950	
October	939	932	942	986	859	882	942	988	938	944	931	1,009	
	914	906	921	932	853	891	923	926	932	947	989	908	
	927	931	956	955	898	938	1,000	979	917	973	916	965	

For live births the table shows that the daily average is normally at a minimum in November, then rises sharply until March, remains high until May or June and then declines again except for a minor rise in September (corresponding to Christmas marriages).

Stillbirths tend to be relatively numerous in January to May and relatively rare in July to December, corresponding to the distribution of live births about a month later. Their ratios fluctuate more from one year to another than those of live births, mainly because of their small numbers. The seasonal variation in stillbirth *rates* is shown by Table XVI, which relates the average daily number of stillbirths in each calendar month to the sum of that number and of the corresponding number of live births one month later.

Table XVI. Stillbirth rates by calendar month (see text), 1939, 1951–54, 1956 and 1957, England and Wales

The ratios were calculated before rounding off the rates

Month of occurrence	Rat	te per 1,00 (live an		rths	Ratio to calendar year rate taken as 1,000				
of stillbirth	1939	1951–54	1956	1957	1939	1951–54	1956	1957	
Year	38·1	22.9	22.8	22.5	1,000	1,000	1,000	1,000	
January	39·9	23·0	22·4	23·5	1,045	1,006	980	1,048	
February	38·0	23·1	23·9	23·3	998	1,008	1,046	1,037	
March	38·0	23·3	23·1	22·4	998	1,017	1,012	998	
April	38·0	23·1	22·5	22·4	997	1,006	984	1,000	
May	38·6	22·8	23·6	23·1	1,013	994	1,035	1,027	
June	37·1	22·6	23·1	20·8	973	986	1,013	927	
July	38·2	22·9	22·8	23·0	1,002	999	999	1,026	
August	36·7	21·8	22·5	22·3	962	950	984	993	
September	39·5	23·0	22·8	20·9	1,036	1,003	998	932	
October	39·0	23·7	23·3	22·9	1,023	1,037	1,019	1,019	
November	38·4	23·2	23·4	21·9	1,007	1,013	1,025	976	
December	36·3	22·6	20·8	22·8	953	985	911	1,017	

It is clear that stillbirth rates calculated on something like the true exposed to risk vary very little with the seasons*, hardly more than they do by chance as a result of small numbers. The seasonal variation is, however, statistically significant when numbers are increased by combining the four years 1951-54 ($\chi^2 = 24.0$ with 11 degrees of freedom, P $\simeq 01$). The numbers in the individual years shown, including 1939, are too small to show either significant seasonal variation or a significant difference from the seasonal pattern for all seven years combined. The rates tend to be highest in October and lowest in August.

The seasonal pattern of ratios to the calendar year average such as those in Table XV is distorted when the trend is not level and particularly when it changes abruptly, as it did in the spring of 1955. Diagram 2 shows the average daily number of legitimate live births in each calendar month of the years 1954 to 1957 together with the estimated trend†.

Table XVII. Monthly incidence of legitimate live births in relation to the trend, 1954 to 1957, England and Wales

The ratios were calculated before rounding off the mean numbers

	_												
			Mean n	umber o	of legiti	mate liv	e births	per da	у		Patio	of actua	1
Month of occurrence			Actual				Tr	end		***		id value	
						1956	1957	1954	1955	1956	1957		
February		1,754 1,856 1,875	1,763 1,748 1,834	1,802 1,851 1,968	1,841 1,941 1,990	1,776 1,773 1,769	1,732 1,727 1,725	1,797 1,803 1,810	1,844 1,852 1,861	0.987 1.047 1.060	1·018 1·012 1·063	1·003 1·027 1·088	0·998 1·048 1·069
May		1,847 1,896 1,801	1,820 1,810 1,792	1,941 1,899 1,845	1,971 1,991 1,935	1,765 1,762 1,759	1,724 1,726 1,731	1,816 1,821 1,824	1,870 1,880 1,890	1·046 1·076 1·024	1·055 1·049 1·035	1·069 1·043 1·011	1·054 1·059 1·024
August		1,763 1,681 1,730	1,750 1,677 1,722	1,830 1,764 1,826	1,840 1,819 1,904	1,756 1,753 1,750	1,739 1,748 1,758	1,826 1,828 1,829	1,897 1,905 1,909	1·004 0·959 0·989	1·006 0·959 0·980	1·002 0·965 0·999	0·970 0·955 0·997
November		1,665 1,618 1,631	1,664 1,642 1,708	1,717 1,677 1,742	1,861 1,758 1,802	1,747 1,743 1,738	1,769 1,780 1,790	1,831 1,834 1,838	1,912 1,913 1,914	0·953 0·928 0·938	0·941 0·923 0·954	0·938 0·915 0·948	0·973 0·919 0·941

When seasonal variations are eliminated it can be seen that the number of births declined slowly until about April 1955 and then turned sharply upwards. It continued to increase throughout 1956 and 1957, rising more steeply in the first part of 1957 than in the second.

The ratios of average daily births in each month to the trend values are given in Table XVII. They provide a more accurate measure than those in Table XV, and show that most of the recent apparent reduction in the seasonal swing compared with earlier years was due to the varying direction of the trend.

Sex ratio at birth

In 1957 there were 1,060 male live births per 1,000 female live births. This ratio was about the same as the average of recent years. Serial records are shown in Table C of Part II and separate figures for legitimate and illegitimate live and still births in Table XVIII.

^{*} Their variance is about a quarter of that of rates calculated on the basis of total births occurring in the *same* calendar month as the stillbirths.

[†] The trend has been estimated by adjusting a twelve-month moving average by hand so as to smooth it and to improve the balance of positive and negative deviations.

Diagram 2. Monthly incidence of legitimate live births in relation to the trend, 1954 to 1957, England and Wales Actual figure for the month Estimated trend 2,000-1,600--006,1 1,700-900,1 Average number doy Per

Table XVIII. Male births per 1,000 female births, by legitimacy and whether live or still, 1928 to 1957, England and Wales

Period		Legitimate	births	Illegitimate births				
renou	Live	Still	Live and still	Live	Still	Live and still		
1928-30	1,044	1,231	1,051	1,037	1,280	1,049		
1931-35	1,051	1,207	1,057	1,044	1,153	1,049		
1936-40	1,054	1,183	1,059	1,050	1,117	1,054		
1941-45	1,061	1,158	1,064	1,074	1,173	1,078		
1946-50	1,061	1,169	1,063	1,056	1,238	1,061		
1951-55	1,059	1,126	1,060	1,061	1,229	1,066		
1956	1,057	1,108	1,058	1,055	1,049	1,055		
1957	1,061	1,081	1,061	1,049	1,002	1,047		

The generally rising trend in the proportion of boys among births in the present century can be attributed to the continuous reduction in foetal mortality. This was discussed in more detail in the Commentaries for previous years, and the influence of mother's age in the Civil Text Volume for 1946–50.

Multiple births

Of the 730,524 maternities in 1957 there were 9,371 with multiple births—9,273 with twins, 95 with triplets and 3 with quadruplets. They produced 17,902 live and 941 stillborn children. Details are given in Tables CC and DD.

The number of multiple maternities in a single year is too small for detailed study; the figures would be too much affected by chance fluctuations. A detailed analysis appeared in the 1956 Commentary, pages 33-42.

Birth rates in different parts of the country

The number of live births by sex and legitimacy and the crude birth rates for all administrative areas in England and Wales together with summary figures for regions, conurbations and urban/rural aggregates are shown in Table E. This table also shows for each area an Area Comparability Factor* by which the crude birth rates can be standardised for the sex and age structure of the local population, and the ratio of the local rate thus adjusted to the national birth rate. Table XIX shows live birth rates and the ratio of the local to the national birth rate for each standard region, conurbation and urban/rural aggregate.

^{*} For a detailed description of the birth A.C.F.s see the *Statistical Review* for 1954, Part III, Commentary, pages 30–31. As from 1957 the A.C.F.s there described have been further adjusted to allow for the presence in some areas of women of childbearing age in mental and mental deficiency hospitals where they are not 'exposed to risk' of childbearing.

Table XIX. Birth rates in standard regions, conurbations and urban and rural aggregates, 1957

All the ratios were calculated before rounding off the rates

		All live	births	~ .	Ratio of proportion		imate pirths
Area	Crude rate per 1,000 Home	Adjusted birth	Ratio of local to national rate		married among females 15-44 to national	Crude rate per 1,000 Home	Ratio of local to national
	popula- tion	rate	Crude	Adjusted	proportion as at 1951 Census	popula- tion	rate
ENGLAND AND WALES	16.1	16.1	1.00	1.00	1.00	0.77	1.00
Regions and conurbations:							
Northern	18·2 18·4 18·1	17·9 17·5 18·0	1·13 1·14 1·13	1·11 1·09 1·11	0·99 0·98 1·00	0·67 0·70 0·66	0·87 0·91 0·86
East and West Ridings West Yorkshire Conurbation Remainder of East and West Ridings	16·4 16·0 16·7	16·4 16·2 16·7	1·02 0·99 1·04	1·02 1·00 1·04	1·03 1·02 1·04	0·76 0·88 0·67	0·99 1·14 0·87
North Western	16·8 16·5 19·9 15·4	16·8 16·4 19·1 15·9	1·04 1·03 1·24 0·96	1·04 1·02 1·19 0·99	0·99 1·01 0·92 1·00	0·79 0·92 0·93 0·61	1·03 1·19 1·21 0·79
North Midland	16.5	16.5	1.03	1.03	1.05	0.78	1.01
Midland	16·7 16·7 16·6	16·2 15·7 16·6	1·03 1·04 1·03	1·00 0·98 1·03	1·03 1·02 1·03	0·77 0·87 0·67	1·00 1·13 0·87
Eastern	16.6	16.6	1.03	1.03	1.02	0.72	0.94
London and South Eastern	14·6 14·7 14·6	14·2 13·8 15·5	0·91 0·91 0·91	0·88 0·86 0·96	0·97 0·97 0·97	0·86 0·93 0·67	1·12 1·21 0·87
Southern	16.3	17.0	1.01	1.05	1.00	0.83	1.08
South Western	15.3	16.3	0.95	1.01	1.00	0.69	0.90
Wales (including Monmouthshire) Wales I (South East) Wales II (remainder)	15·9 16·4 14·8	16·3 16·2 16·0	0·99 1·02 0·92	1·01 1·01 1·00	0·99 1·01 0·94	0·55 0·53 0·58	0·71 0·69 0·75
Urban/Rural aggregates:							
Conurbations	16.0	15.3	0.99	0.95	0.98	0.90	1.17
Areas outside conurbations: Urban areas with populations of 100,000 and over	16.3	16.2	1.01	1.00	1.01	0.87	1.13
Urban areas with populations of 50,000 and under 100,000 Urban areas with populations under	15.8	15.8	0.98	0.98	1.01	0.76	0.99
50,000	16·3 16·1	16·5 17·1	1·01 1·00	1·02 1·06	1·01 1·01	0·63 0·61	0·82 0·79

The standardisation effected by the use of the A.C.F. allows only for the varying proportion of women of childbearing age in the local population. It does not take account of the proportion of these women who are married, as would be necessary if the fertility of married women in different areas is to be compared. A more detailed analysis of this sort was made in the 1956 Commentary (pages 43–47). In most of the areas shown in Table XIX the difference made was small. Alternatively if the object is to compare birth increments to local populations the proportion married can be specially examined as a possible source of any birth variation which may be found. For this purpose Table XIX includes a column showing the ratio of the proportion married among women aged 15–44 to the national proportion as at the 1951 Census.

All live births

Among the areas shown in Table XIX the Merseyside Conurbation has the highest birth rate; the adjusted figure being nearly a fifth higher than that for England and Wales; other areas having high birth rates are the two parts of the Northern Region, the Tyneside Conurbation and the remainder of the Northern Region. At the other extreme, the parts of the London and South Eastern Region (the Greater London Conurbation and the remainder of the Region) have the lowest birth rates, both crude and adjusted. In general the use of the A.C.F. adjustment makes little difference to the relative fertility of the areas identified in Table XIX. The main exceptions are Wales II, the South Western Region, the West Midlands Conurbation and the rural districts. The extreme rates in the areas quoted earlier are not accounted for by similar differences in the proportions married among females aged 15–44; in the Merseyside Conurbation the proportion is in fact rather lower than that for England and Wales. In several of the other areas high marriage proportions account for the birth rate being higher than the national figure.

In the urban/rural aggregates the crude rates vary little but the adjusted rates are roughly in reverse order of urbanisation, the rural districts having the highest rate and the conurbations the lowest rate. This gradient cannot be accounted for by differences in the proportions married.

Illegitimate live births

Among the areas shown in Table XIX, Wales I has the lowest illegitimacy rate. The highest rates were in the Greater London and Merseyside Conurbations; in the Merseyside Conurbation the high rate was associated with a low proportion married. The other conurbations (apart from Tyneside) and the Southern Region also had high rates. In the urban/rural aggregates there was a gradient from 0.90 per thousand home population in the conurbations to 0.61 in the rural districts.

Stillbirths

The registration of stillbirths in England and Wales began on 1st July 1927, when the Births and Deaths Registration Act, 1926, came into operation. The Statistical Reviews, Part II, show numbers of stillbirths in England and Wales as a whole by quarters (Table D) and annually by sex and legitimacy (Table B). Table E1 gives annual numbers of stillbirths by sex and legitimacy for standard regions, conurbations, urban and rural aggregates, metropolitan and county boroughs, and administrative counties; Table E gives the total numbers for all county districts. Under the Population (Statistics) Act, 1938, additional information has been collected at the registration of births, including stillbirths, and detailed tabulations of stillbirths by legitimacy and age of mother appear in the Fertility Analyses of Part II of the annual Reviews.

The stillbirth rate has remained fairly stable since 1949 in the neighbourhood of 23·0 per thousand total live and still births. The figures are shown in Table XVI on page 26. The effects of multiple maternities, age of mother and birth order were amply discussed in the Civil Text Volume for 1946–50, pages 141–144, where it was shown that the risk is much higher in multiple than in single births (especially at the younger ages of mother where the single birth risks are lower); is higher in male than in female births; increases with age of mother except at the youngest ages; and independently of age varies with parity, being highest at first births and lower at the second than at any other higher parity birth.

The seasonal incidence of stillbirths is discussed on pages 25–27, and the medical aspects on pages 74 ff and 197 ff.

MARRIAGES

In 1957 there were 346,903 marriages contracted in England and Wales. Marriages and marriage rates for past years are given in serial form in Tables B and C of Part II and in Table D for calendar quarters. The summary in Table XX shows that the number of marriages was about 6,000 smaller than in 1956. but this was due to the smaller number of unmarried persons of marriageable age in the population. The crude marriage rate (15.4 persons marrying per 1,000 total population) declined fractionally compared with 1956. There was also a very slight decline in the male and female rates per 1,000 unmarried population aged 15 and over* but only because of the changing age composition of that population. In about 90 per cent of all marriages the man is between the ages of 20 and 45 and in a similar proportion the woman is between 15 and 40, but in the unmarried population aged 15 and over these age-groups are only about 45 and 40 per cent respectively. If the number of marriages is related to the unmarried population in the age ranges mentioned the rates actually show a slight rise between 1956 and 1957 (from 157 to 158 per 1,000 for men, and from just under to just over 132 per 1,000 for women). Even the rates per 1,000 unmarried population aged 15 and over were still 15 and 10 per cent, respectively, higher than in 1938, and higher than the average for 1951-55.

Table XX. Number of marriages and persons marrying per 1,000 total population of all ages and per 1,000 unmarried† population aged 15 and over, by sex, 1938 to 1957, England and Wales

The ratios were calculated before rounding off the rates

			000 total	Per 1,000 unmarried† population aged 15 and over				
Period	Marriages (thousands)	Rate	Ratio to 1938 rate taken as 100	Rate	Ratio to 1938 rate taken as 100	Fe Rate	Ratio to 1938 rate taken as 100	
1938 1939–50‡ 1951–55‡ 1956 1957	361·8 381·9 350·9 352·9 346·9	17·6 17·9 15·8 15·7 15·4	100 102 90 89 88	61·2 68·2 68·3 70·7 70·1	100 111 112 116 115	47·8 53·0 51·4 52·9 52·4	100 111 108 111 110	

[†] Single, widowed and divorced.

Marriage rates by sex, age and prior marital condition

The more detailed analysis in Tables H and XXI, showing marriage rates by sex, age and prior marital condition, confirms that the fall in the number of marriages was due to the smaller population at risk.

[‡] Annual averages.

^{*} Though 16 is the minimum legal age for marriage, groupings beginning at age 15 are more convenient for making the necessary population estimates, for applying the rates to other population statistics and for international comparisons.

Table XXI. Marriage rates by sex, age and prior marital condition, 1931 and 1938 to 1957, England and Wales

The ratios in columns 10 and 12 were calculated before rounding off the rates

		Ann	ual mai	riage rach age-	ates per group	1,000		Marriage rate per	Ratio to corresponding rate	Marriage rate which would have	Ratio of actual marriage
Year	15	20-	25-	30-	35-	45-	55 and over	1,000 population over 15	for 1938 taken as 1,000	resulted had the 1938 age rates been in operation	rate (col. 9) to rate in column 11 taken as 1,000
1	2	3	4	5	6	7	8	9	10	11	12
1021		~~ ^	100.0				BACHE				
1931 1938	3.3	72·3 87·0	152·2 176·8	111·5 127·5	49·8 57·0	16.4	5·4 4·8	56·0 64·8	864 1,000	65·4 64·8	856 1,000
1939–50 1951–55	6·4 6·7	112·1 132·1	175·6 172·5	128·3 107·7	61·2 49·1	20·8 18·2	5·1 5·1	71·2 70·8	1,100 1,093	63·1 60·7	1,129 1,167
1956 1957	9·4 10·6	152·0 155·2	178·8 174·8	108·8 109·4	47·5 46·8	17·3 16·5	4·9 4·9	74·7 74·3	1,153 1,147	58·3 57·5	1,280 1,292
WIDOWERS AND DIVORCED MEN											
1931 1938		139·2 153·6	172·7 174·5	189·2 248·0	133·5 152·6	67·6 79·1	14·9 15·9	35·8 38·1	938 1,000	40·7 38·1	879 1,000
1939–50 1951–55	_	217·6 133·7	425·9 406·8	338 · 1 318 · 8	214·8 206·4	106·0 117·2	17·6 19·7	50·5 55·2	1,323 1,447	38·1 40·3	1,327 1,370
1956 1957	_	94·0 7 5 ·5	347·2 289·4	262·8 255·9	168·8 157·6	109·7 105·3	20·1 20·1	50·5 48·4	1,325 1,270	40·9 40·9	1,235 1,186
							SPINST	TERS			
1931 1938	17·1 22·6	106·8 147·9	119·1 154·0	57·2 67·2	21.3	7·9 8·6	2.2	51·7 61·4	1,000	68·4 61·4	756 1,000
1939–50 1951–55	36·8 43·9	191·1 232·3	153·3 156·5	72·8 75·3	28·9 29·5	10·2 10·4	2·0 2·1	69·5 72·0	1,132 1,172	56·5 50·2	1,230 1,434
1956 1957	54·4 56·6	262·7 266·5	163·1 159·7	79·9 81·3	30·9 30·9	10·4 10·1	2.1	77·3 77·6	1,259 1,263	47·3 46·6	1,633 1,664
WIDOWS AND DIVORCED WOMEN											
1931 1938		128·2 197·1	138·8 172·4	94·1 114·2	36·5 50·1	14.1	2.2	9·8 10·2	964	11·9 10·2	822 1,000
1939–50 1951–55		294·0 403·0	308·6 355·6	170·3 188·2	73·0 84·2	21·6 29·3	2·7 3·0	15·7 16·1	1,548 1,581	10·9 9·5	1,448 1,682
1956 1957	Special Colonial Colo	450·0 425·7	460·0 472·7	196·1 186·3	80·5 77·6	29·7 29·9	3.0	14·4 13·6	1,415 1,340	8·4 8·1	1,708 1,670

This is brought out particularly by the comparison of the same rates in terms of index numbers in Table XXII and by Diagram 3. The rates continued to rise at the youngest ages, particularly for first marriages, and to remain high above the pre-war level except for bachelors over 25. There has been no change in the tendency for a larger proportion of people to get married at some time in their lives and for more of them to do so earlier. First marriage rates in the age-group under 20 have been climbing rapidly; the spinster rate in this group overtook that in the 35–44 group in 1937 (that in the narrower 35–39 group in 1941, and again in 1949 after a break in 1946–48) and is leaving it further and further behind.

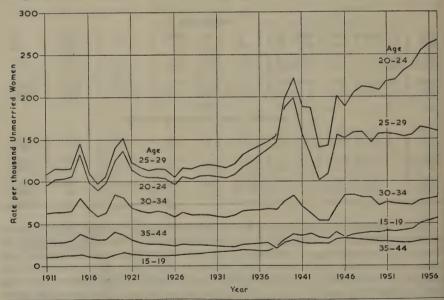
Table XXII. Ratios of marriage rates by sex, age and prior marital condition, to those of 1938 taken as 100: 1931 and 1939 to 1957, England and Wales*

All the ratios were calculated before rounding off the rates in Table XXI

											_		_			
15-	20-	25-	30-	35-	45-	55 and over	All agest	Period	15	‡ 20-	25-	30-	35-	45-	55 and over	All ages†
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17
at the second second		E	BACHI	ELOR	S				W	/IDOV	VERS	AND	DIVO	RCEI) MEI	7
100 100	83 100	86 100	87 100	87 100	89 100	114 100	86 100	1931 1938	Quantum Common	=	100	76 100	87 100	85 100	94 100	100
198	129	99	101	107	113	107	113	1939-50		_	244	136	141	134	111	133
205	152	98	84	86	99	107	117	1951–55		_	233	129	135	148	124	137
290 326	175 178	101 99	85 86	83 82	94 89	103 102	128 129	1956 1957	garature Common	_	199 166	106 103	111	139 133	126 126	124 119
			SPINS	TERS			v		W	/IDOV	VS AN	ND DI	VOR	CED V	VOME	N
76 100	72 100	77 100	85 100	83 100	92 100	108 100	76 100	1931 1938		65	81 100	82 100	73 100	96 100	100	82 100
163	129	100	108	112	119	100	123	1939–50	-	149	179	149	146	146	109	145
195	157	102	112	115	122	103	143	1951-55		204	206	165	168	199	122	168
241 251	178 180	106 104	119 121	120 120	121 118	104 104	163 166	1956 1957	_	228 216	267 274	172 163	161 155	201 203	122 121	171 167

^{*} Some of the rates have been revised.

Diagram 3. Marriage rates of women by age, 1911 to 1957, England and Wales



§ 1911-37: All marriages per 1,000 spinsters, widows and divorced women. First marriages per 1,000 spinsters.

A more detailed discussion of the trends in marriage rates in recent years can be found in the 1955 Commentary, pages 45-47, and in the marriage chapters of previous Commentaries.

[†] Age-standardised. ‡ Based on small numbers.

Marriages of minors.—The tendency to younger marriage is naturally reflected in the proportion of brides and grooms who are under 21. For men it rose from 3.4 per cent in 1938 to 8.7 per cent in 1956 and 9.6 per cent in 1957, and for women from 16.4 per cent to 32.2 and 33.6 per cent, respectively, in the same years. These marriages were last discussed in detail in the 1954 Commentary, pages 38 and 39.

Remarriages of widowed and divorced women

The marriages of widowed and divorced persons in Table XXI and its predecessors in earlier Commentaries have been combined because no separate population estimates for the calculation of rates were available. The two groups are, however, rather different and the proportion of the divorced in the combined total, considerably larger than before the war, is much higher at young ages than at older ones.

An attempt has therefore been made to compute some approximate marriage rates for the widowed and the divorced separately for years since 1951, in the first place for women. They are rather tentative estimates but probably give the right impression of the differentials and the general trend. The figures are shown in Table XXIII.

Table XXIII. Marriage rates of widowed and divorced women by age, 1951 to 1957, England and Wales

Per 1,000	population	in each	group by	age and	condition
-----------	------------	---------	----------	---------	-----------

		Wic	lows	<i>y</i>			. ,	I	Divorce	d wome	en	
20—	25—	30—	35	45—	55 and over	Year	20	25—	30	35	45	55 and over
171 230 220 322 321 315 305	165 179 197 243 324 356 366	113 123 112 114 133 133 132	56 54 56 53 55 55 55	22 23 23 23 24 23 24 23 23	3 3 3 3 3 3 3	1951 1952 1953 1954 1955 1956 1957	493 549 478 443 466 496 450	373 430 437 452 502 516 542	246 251 246 241 256 249 235	144 144 129 120 121 115 111	68 74 70 62 64 61 59	22 21 19 18 19 17 16

From these estimates it would seem that the marriage rates of divorced women are very much higher than those of widows of the same age. Even the latter are higher than the corresponding rates for spinsters in Table XXI; the only exceptions are the widows' rates in the age-group 20–24 in 1951 and 1953, since when they have risen steeply. At these ages, where spinster marriage rates rose throughout the seven years, those of widows rose even more rapidly, while those of divorced women actually fell a little on balance. But at ages 25–29, where the spinster rates have changed little, both the remarriage rates have increased rapidly; those of widows have more than doubled. There are no great differences in trend at older ages.

The relation between marriage rates and population structure

A set of marriage rates can be summarised in a nuptiality table, in the same way as death rates are summarised in a life table. It is a convenient way of bringing out their implications, and also useful because the results can be combined with fertility rates or mean family sizes in the calculation of replacement rates.

Net nuptiality tables based on the marriage rates of 1951–55 for both males and females were published in Appendix C of the 1956 Commentary and described on page 51 of that volume. The marriage rates for 1957 were rather higher at the younger ages than those of 1951–55 and an abridged nuptiality table based on these rates was calculated to see the effect of this difference.*

It was demonstrated in the 1956 Commentary that nuptiality tables based respectively on the male and female marriage rates of 1951–55 were not consistent with each other. Indefinite continuance of these rates would imply 4 per cent more marriages of men under 50 than of women under 45 although these two are normally about equal in number and total 94 per cent of all marriages. The 1957 abridged nuptiality table shows a similar difference of 3.5 per cent. This feature derives from the sex and age structure of the unmarried population which contains the balance of the former surplus of women that is gradually becoming confined to the older ages where few marriages take place. As the population structure becomes more normal, therefore, either male marriage rates will tend to fall or female ones to rise, possibly both. Tables XXI and XXII in fact show that the first marriage rates of young women continue to rise, but the same is true for young men. There are some signs of a fall in the marriage rates of older bachelors and male remarriage rates are clearly declining, but these have a much smaller weight in the total number of marriages.

Table XXIV shows what would happen to the proportions ever-married between ages 15 and 50 if the 1951–55 and 1957 marriage rates persisted. On the basis of the 1957 rates, only 6 per cent of the men and 4 per cent of the women in the 45–49 age-group would remain unmarried. The proportions married for 1957 are higher than those for 1951–55 in all the age-groups shown, but the difference is, as is to be expected, greater at the younger ages. Table XXV shows the proportions married and ever-married in the age-group 45–49 at each census since 1851 and based on the nuptiality of 1951–55 and 1957. These last at 94 per cent for men and 96 per cent for women are higher than any ever recorded in England and Wales, exceeding those at the 1951 Census by 4 percentage points for men and 11 points for women (1 point more in each case than on the basis of the 1951–55 nuptiality).

Table XXIV. Proportions ever-married, according to the net nuptiality of 1951-55 and 1957, England and Wales

(Per thousand)

Mei	ı		Wom	en
Nuptial	ity of	Age- group	Nuptial	ity of
1951–55	1957		1951–55	1957
6 251 685 844 897 920 930	9 291 736 868 912 931 939	15–19 20–24 25–29 30–34 35–39 40–44 45–49	49 528 838 909 931 940 945	61 588 883 933 950 956 960

^{*} Some details of the methods used were given in the Census 1951, England and Wales, Fertility Report, page cx.

Table XXV. Proportions married and ever-married among men and women aged 45-49. England and Wales

Censuses 1851–1951 and net nuptiality of 1951–55 and 1957 (Per thousand)

			Mer	1	Women			
			Ever-married	Married	Ever-married	Married		
Census of 1851 1861 1871 1881* 1891*			879 892 901 901 896	810 831 842 842 842 836	874 878 876 877 871	739 744 740 734 728		
1901* 1911 1921 1931 1951	••	• •	886 873 876 890 902	827 824 837 855 878	858 835 832 832 848	726 729 739 733 780		
Net nuptiality of 1951–1	955	• •	930 939	900 (909)	945 960	867 (880)		

More people are getting married, and they are getting married at younger ages. The two things are closely linked, for even without a further increase in the rates at young ages the marriage rates of 1951-55 are sufficient to deplete the unmarried population over age 25 further. Hence the changing age proportions of the marriageable population are bound to lead to a further lowering of the average age at marriage. This was demonstrated in the 1956 Commentary, Table XXXIII which indicated how the age proportions of spinsters between the ages of 15 and 35 would be affected by a continuance of the 1951-55 marriage rates.

The relative numbers of men and women in the main marrying age-groups are shown by the following statement.

Males aged $17\frac{1}{5}$ – 45 per 1,000 females aged 15 – $42\frac{1}{5}$ (see text)

			Cer	nsus			Estimate	Nuptiality table	Abridged nuptiality	
	1871	1901	1911	1 1921 1931 1		1951	1957	1951–55	table 1957	
All conditions	877	876	892	846	892	988	1,012	1,039	1,041	
Unmarried	786	787	808	724	800	968	1,059	1,087	1,121	

On average men are between two and three years older at marriage than women. The difference between the mean marriage ages of all bridegrooms and all brides, shown in Table L of Part II, has gradually increased from just over two years in the nineteenth century and at the beginning of the twentieth to about three in the nineteen forties and since. The average of the male populations at ages 15-44 and 20-44 last birthday (roughly equivalent to 17\frac{1}{2}-45 in exact years) has therefore been related to the average of the female populations at ages 15-44 and 15-39 (say $15-42\frac{1}{9}$).

^{*} Estimated from data for age-group 45-54.

† The proportions married based on the 1957 nuptiality have been estimated from the proportions ever-married and are not independent figures like those for the earlier years.

The last two columns of the statement are based on the average number of survivors in the net nuptiality tables for 1951-55 and for 1957. It should be remembered that the ratio for the unmarried in this column is affected by the inconsistency between the male and female marriage rates, mentioned above; if the female rates came into line with the male there would be fewer unmarried women left and the ratio would be slightly larger.

Apart from 1921, the ratios up to 1931 show a deficit of unmarried men of about 20 per cent and for all conditions combined of 11 or 12 per cent. Up to 1911 this was due largely to the effect of net emigration which was predominantly male. The lower rates for 1921 and those for 1931 also reflect the losses of the First World War. Since the early nineteen twenties net emigration has ceased to be of importance and the number of war deaths was much smaller in 1939–45 than in 1914–18. There has also been a slight increase in the proportion of boys among live births. These changes have been establishing balance between the sexes, and the ratios in the actual population, both of all conditions and unmarried alone, have been approaching those in the life and nuptiality tables. This must have been a powerful factor in raising the marriage rates of women, though not the only one, as the male rates have also risen.

Total married women of reproductive age.—The effect of these high rates in raising the proportion of the population which is married has been shown above in Table XXV. It is important for the fertility of the community, since that depends largely on the number of married women of reproductive age in the population. The proportions of married women are shown by five-year agegroups under age 50 for selected years in Table XXVI.

Table XXVI. Married women per 1,000 total female population in each agegroup and ratio of proportion to that of 1938 taken as 100: 1911, 1931, 1938, 1946, 1951, 1956 and 1957, England and Wales

Year		Aggregates								
	15–19	20-24	25–29	30–34	35–39	40-44	45–49	20–39	15-49	
Married women per 1,000 total female population										
1911 1931 1938	12 18 23	242 257 328	558 587 643	711 733 733	752 755 771	755 749 768	729 733 736	552 572 623	502 529 566	
1946	35	436	696	800	797	784	762	686	626	
1951	42	475	769	828	832	812	780	731	666	
1956 1957	55 60	540 552	806 814	866 872	857 862	845 851	804 810	774 782	697 703	
			Ratio of p							
1911 1931 1938	52 78 100	74 78 100	87 91 100	97 100 100	97 98 100	98 98 100	99 100 100	89 92 100	89 93 100	
1946	153	133	108	109	103	102	103	110	111	
1951	184	145	120	113	108	106	106	117	118	
1956 1957	241 260	165 168	125 127	118 119	111 112	110 111	109 110	124 125	123 124	

Throughout the period covered by the table the proportions married in the total female population have increased in each age-group and these increases have been outstanding at ages under 25. The proportion in 1957 exceeded that of 1938 by no less than 160 per cent at ages 15–19 and by 68 per cent at ages 20–24. The rise of 27 per cent at ages 25–29 is less striking but hardly less significant, applying as it does to larger proportions married.

In any particular year the proportions married increase with advancing age, at first very rapidly and then more slowly, to a maximum close to age 35. They then decline slowly as new marriages are increasingly offset by widowhoods, but the total reduction in the proportion to age 49 is relatively small.

The last two columns of Table XXVI show the proportion of married women in the reproductive age-group 15–49 as a whole and in the more critical group 20–39, among whom 90 per cent of births occur. The proportions represent the fractions of the reproductive years which fall within married life. From 1911 to 1931 the former proportion rose slightly from $50 \cdot 2$ to $52 \cdot 9$ per cent, and then more rapidly to $56 \cdot 6$ in 1938. It had reached $62 \cdot 6$ by 1946 and $70 \cdot 3$ by 1957. In the age-group 20–39 the proportion rose from $55 \cdot 2$ per cent in 1911 to $78 \cdot 2$ in 1957.

These increases have been exaggerated by the ageing of the population in the 15-49 group since 1911 which has tended to increase the relative number of women at the older ages within the group, i.e. where the proportion married is greater. To remove this distortion a marriage index for the year can be calculated, by expressing the actual number of married women in the group as a ratio to the number which would have been married if the populations in the component five-year age-groups had been subject to standard proportions married in those age-groups, viz. those for 1911. The difference of this ratio from unity thus indicates changes in the proportions married apart from those due to ageing.

Marriage indices standardised on 1911 proportions married within successive five-year age-groups from 15 to 49, with the corresponding unstandardised figures, are shown below:

Year	1911	1931	1938	1946	1951	1957
Standardised	1·000	1·022	1·067	1·146	1·200	1·269
Unstandardised	1·000	1·054	1·127	1·247	1·327	1·400

The correction for ageing shows that the true increase in the proportion married among the women aged 15–49 between 1911 and 1957 was 27 per cent instead of the 40 per cent suggested by the crude proportions, one third of the latter increase being due to the ageing of the population and unrelated to the incidence of marriage.

The fact that such a high degree of marriage has been attained is important, and the proportions are still growing. In fact, it would not be necessary for rates of new marriages to be as high as those recently experienced to achieve further increases in the proportion of married women in the population aged 15–49. The marriage rates experienced before the war would not, however, suffice for this purpose. This may help to put recent changes in age marriage rates in proper perspective.

Seasonal incidence of marriage

The numbers of marriages and rates per 1,000 population by calendar quarter are shown in serial form in Table D. Monthly numbers of marriages since 1947 are given in Table N, together with ratios of the daily average for each month to that for the calendar year.

Relatively many marriages occur in Eastertide, in the summer months and around Christmas, and fewest in January, May and November. In years when Easter falls in March the number of marriages in March is increased at the expense of the number in April by 15 to 20 thousand.

Since 1949 a new tendency has appeared: March has become the peak month for marriage even when Easter falls in April. Its daily average is twice to two and a half times as large as that for the whole year. No doubt the reason is that the income tax year ends on 5th April, and that some people who would otherwise have married after that date bring their marriage forward into the earlier tax year in order to take advantage of the additional tax relief. A similar phenomenon has been noticed in some other countries, the month depending on the local tax law.

Marriage incidence in different parts of the country

The numbers of marriages in regions, counties and county and metropolitan boroughs are given in Table F, and the numbers of persons marrying in each region by age and previous marital condition in Table M.

These figures have to be used with caution, because the district in which the marriage takes place often contains the residence of only one of the parties and sometimes of neither. This distorts local differences in rates, though less so in comparisons between areas as large as regions. Rates for the latter and ratios to the national rate are given in Table XXVII.

Table XXVII. Marriage rates in regions of England and Wales and in London A.C., 1957

The ratios were calculated before rounding off the rates

	Persons	Ratio of r	ate to that o	f England	
Area	marrying per 1,000 popula-	Crude	Standardised on population of		
	tion	Crude	Men	Women	
ENGLAND AND WALES	15.4	1.00	1.00	1.00	
Northern Region	16·0 15·6 15·4 15·2 15·6	1·04 1·01 1·00 0·98 1·01	0·99 1·15 1·09 1·04 1·03	1·02 1·10 0·97 1·12 1·04	
Eastern Region London and South Eastern Region London A.C. Remainder Southern Region South Western Region	13·0 16·9 20·6 15·3 14·3 14·1	0·84 1·09 1·33 0·99 0·92 0·91	0·87 1·14 1·17 1·14 0·90 0·94	0·90 0·98 1·03 0·95 0·97 0·95	
Wales (including Monmouthshire) Wales I (South East) Wales II (remainder)	15·1 15·7 13·7	0·98 1·01 0·89	0·94 1·00 0·82	0·98 1·02 0·88	

The crude rates are affected by differences in the composition of the population by sex, age and marital condition. Table XXVII therefore contains ratios of the regional to the national rate which have been standardised by an Area

Comparability Factor calculated in a similar way to that used with birth rates. The results differ a little according to whether male or female marriage rates are used; the rates for the two sexes are not quite consistent, as was noted earlier in connection with the nuptiality tables. This is particularly noticeable in the London and South Eastern Region with its larger numbers of unmarried women. (The ratio of unmarried males aged $17\frac{1}{2}$ –45 per 1,000 females aged 15–42 $\frac{1}{2}$ in this region at the 1951 Census was 860 compared with the national ratio of 968 shown on page 37.)

The standardised ratios are high in the East and West Ridings Region, the County of London and the North Midlands Region. The special attraction of a London wedding has been noticed for many years, and is more obvious in the figures for the City and one or two boroughs such as Westminster, but the greater part of the surplus in the crude rate for the county as a whole is accounted for by the structure of the population. Low ratios are found in Wales II and the Eastern, Southern and South Western Regions.

Manner of solemnization of marriage

The marriages of 1957 are analysed according to the manner of solemnization in Appendix B of Part II, of which Table 7 gives comparative figures at five-year intervals from 1844 onwards. Similar figures last appeared in 1952.

Among the 346,903 marriages registered in 1957, 97,084 (280 per thousand) were civil marriages, and 249,819 were solemnized with religious ceremonies. Both the number and the proportion of civil marriages have decreased a little since 1952, in contrast to earlier years which saw a steady rise in the proportion of civil marriages from 26 per thousand in 1844 to 306 per thousand in 1952. A minor peak in the proportion of civil marriages occurred on the outbreak of war in 1914.

Some figures from Table 7 have been reproduced below in Table XXVIII.

Over the years there has been a decline in the proportion of marriages taking place in the Church of England and the Church in Wales from 932 per thousand marriages with religious ceremonies in 1844 to 782 in 1904 and 689 in 1957. Table XXIX suggests that this fall is in part a reflection of the parallel increase which has taken place in the proportion of civil marriages to all marriages.

But no doubt the changes in the proportions in Table XXVIII are also influenced by changes in the relative strengths of the various denominations. In the second half of the nineteenth century the proportion of Free Church marriages rose continuously, from 49 per 1,000 marriages with religious ceremonies in 1844 to 110 in 1869 and 160 in 1904. Since the First World War it has tended to fall a little. The Roman Catholic proportion, on the other hand, previously stable at about 5 per cent, has been rising, rather more quickly in the last five-year interval:

Calendar period			in the p	ropor	ual percentage increase tions of Table XXVIII percunded figures)
1904–24			(00000		1.9
1924-29		••		• •	* *
1924-29	• •	• •	••		
		• •		• •	2.5
1934–52	• •	• •		• •	2.3
1952–57	• •	• •			3.3

Table XXVIII. Marriages by manner of solemnization, 1844-1957, England and Wales

	ı	Jews	#3#0\p\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\	
		Others	22 22 22 23 26 26 27	
ions shown monies	Other denominations	su	Baptists	11 1 2211 1
s of denominat th religious cere		Congrega- tionalists	333	
Marriages according to rites of denominations shown per 1,000 marriages with religious ceremonies	Och	Methodists	72 73 869 32 869 32 860 32 860 32 860 32 860 32 860 32 860 32 860 32 860 32 8600	
Marriages a per 1,00		All	134 134 150 160 155 173 173 173	
	Roman	Catholic	18 52 54 67 72 72 136 160 160	
	Church of England		932 851 813 782 776 776 777 747 747 747 689	
Civil	marriages per 1,000 total	marriages	26 131 131 173 231 238 257 284 306 280	
	Year 🔆		1844 1864 1864 1904 1919 1929 1934 1957	

Table XXIX. Changes in the proportions of different types of marriages per 1,000 total marriages, 1844 to 1957, England and Wales Figures are rounded and may not add to totals

		Jews		9+			-2	
	ion	Other denomina- tions		+83	7	17-	9-	
	Change in proportion	Roman		+24	2	+7+	+ 50	
	Cha	Church of England and Church in Wales		-265		/01-	-39	
		Civil		\(+153	100	cor+ {	>4	
		Jews	.	2	7	7		32
		Other denomina- tions	48	66	131	110	86	104
0		Roman Catholics	17	41	41 .	. 59	95	115
		Church of England and Church in Wales	706	763	642	535	496	496
		Civil	26	95	179	284	306	280
		Year	1844	1869	1904	1934	1952	1957

Tables 1 and 2 of the Appendix in Part II show the regional incidence of manner of solemnization in 1957. The proportion of civil to all marriages varied from 230 per 1,000 in the North Western Region and 238 in Wales II to 334 in the London and South Eastern Region, and from 171 in Radnorshire to 403 in the County of London. The decline in the proportion of civil marriages between 1952 and 1957 was found in all regions except Wales I where the proportion rose slightly.

The proportion of marriages in the Church of England or Church in Wales to all religious marriages, averaging 69 per cent for the whole country, varied from over three quarters in the Southern, Eastern and North Midland Regions to about one half in Wales; among the counties it was highest in Herefordshire (87 per cent), Rutland and Norfolk and lowest in Merionethshire (32 per cent). The Roman Catholic proportion, averaging 16 per cent, was highest in the North Western Region (over a quarter), the London and South Eastern and the Northern Regions, and lowest in Wales II and the South Western and North Midland Regions (all under 10 per cent); it was about 30 per cent in the counties of London and Lancashire and about 20 per cent in Warwickshire, the North Riding, Durham and Northumberland, but less than 1 per cent in Radnorshire. Methodist proportion (7 per cent on average) was highest in the north, including the whole of Yorkshire, and in the south west, especially in Cornwall (where it was 31 per cent). The Congregationalist, Baptist, Presbyterian and Calvinistic Methodist proportions were highest in Wales (the last-named Church is almost entirely concentrated there, and accounted for 31 per cent of all religious marriages in Merionethshire); the Jewish proportion was highest in the London area.

Table 3 of the Appendix gives both civil and religious marriages by type of preliminaries and Table 4 the proportions of marriages by licence instead of banns or certificate. This proportion was nearly half for civil marriages and about 9 per cent for religious ones (7 per cent for the Church of England and Church in Wales and 13 per cent for all others combined). There was some regional variation, licences being most customary in Wales II.

Tables 5 and 6 analyse the marriages in registered buildings according to whether they were solemnized before a Registrar or an Authorised Person*. The proportion of such marriages before an Authorised Person averaged 41 per cent, but varied considerably between different denominations and between different parts of the country, being generally low in Wales II. It was 88 per cent among the Methodists, with little regional variation, but only 15 per cent among Roman Catholics, a figure which conceals large variations between the Midland (80 per cent), North Midland (43) and East and West Ridings (28) Regions and practically zero in Wales, the South Western and Eastern Regions. The other denominations shown in Tables 5 and 6 occupy an intermediate position between these two extremes, both in their average proportions and in the extent of regional variation.

Places of worship and buildings in which marriages may lawfully be solemnized

Table 8 in Appendix B of Part II gives the number of buildings certified as places of worship by denomination and region, and Table 9 the number of buildings in which marriages may lawfully be solemnized, both as at 30th June 1957.

^{*} A person authorised by the governing body of the registered building to register marriages, and certified as such to the Registrar General, under the provisions of the Marriage Act, 1898, re-enacted in the Marriage Act, 1949.

WIDOWHOOD

Table SS of Part II shows the numbers of marriages ended by the death of one partner, classified by the ages of the deceased and surviving partners. The table is deficient in respect of those deceased persons for whom a statement of marital condition was not given when the death was registered. The percentages of men and women where the marital condition was not stated at registration are shown below:

Percentage of deaths where marital condition was not stated

Age at death	n Men	Women
15 20 25 30 35 40 45 50 60 65 70 75 and over	8·2 34·0 25·8 18·8 14·3 10·5 7·1 4·0 3·4 2·9 2·5 3·7	0·3 0·4 0·1 0·2 0·1 0·1 0·1 0·0 0·0 0·0 0·0 0·0

The "not stated" percentage is low for female deaths at all ages, but is substantial for male deaths particularly at younger ages. Although the marital condition of deceased females could always be inferred from the Rank or Profession (now Occupation) column of the death registers, the marital condition of deceased males can only be obtained under the Population (Statistics) Act, 1938. Particulars are not obtained for the purposes of this Act on the registration of a death on a coroner's certificate after an inquest. Male deaths by accident, poisoning or violence, which normally involve an inquest, amounted in 1957 to 56 per cent of deaths of males aged 20-24, 43 per cent of those aged 25-29, 29 per cent of those aged 30-34, and 22 per cent of those aged 35-39. These proportions account for the general scale of the male percentage of "not stated "marital condition. In addition to this major factor, failure to state marital condition is more likely for bachelors than for married men whose widows are commonly the informants. A rateable distribution of the "not stated" may lead to some bias in that such persons are likely to be single and to be concentrated in the younger ages, but the amount of such a bias will be small particularly in relation to the "not stated" elements consequent on registration on a coroner's certificate. It is possible that the rates per thousand married women in Table XXX are slightly over estimated.

Table XXX. Widowhood rates, 1939, 1946–50 and 1953 to 1957, England and Wales*

1939	1946- 50	1953	1954	1955	1956	1957	Age of sur- viving spouse	1939	1946-	1953	1954	1955	1956	1957
Deaths of wives per 1,000 married men					Deaths of husbands per 1,000 married women					men				
8.7	7.5	7.0	6.9	6.9	6.8	6.8	15 and over	14.3	13.5	13.7	13.7	13.9	14.0	14.0
2·1 2·3 2·3 2·8	1·4 1·4 1·6 1·9	0.6 0.8 1.0 1.3	0·5 0·7 1·0 1·3	0·5 0·6 0·9 1·2	0·5 0·6 0·8 1·2	0·4 0·6 0·8 1·3	15- 25- 30- 35-	1·8 2·0 2·8 4·4	1·1 1·6 2·2 3·3	0·8 1·2 1·7 2·8	0·8 1·1 1·7 2·8	0·8 1·1 1·6 2·7	0·8 1·1 1·6 2·7	0·9 1·1 1·5 2·6
4·9 7·4 10·5	3·9 5·7 8·6	3·0 5·0 7·7	3·0 5·0 7·3	3·0 4·8 7·4	1·8 2·9 4·5 7·4	1·9 2·9 4·6 7·5	40- 45- 50- 55-	6·6 10·3 16·0 22·9	5·2 9·0 14·2 21·2	4·6 7·8 14·2 21·4	4·5 7·8 13·9 21·2	4·5 7·9 13·6 21·6	4·5 7·7 13·1 22·0	4·6 7·9 13·2 21·9
16·5 24·8 37·3	13·7 21·0 32·9	12·1 19·8 30·9	11·8 19·1 30·5	12·0 19·1 30·7	11·8 19·0 30·4	11·5 18·3 29·4	60- 65- 70-	35·0 49·6 72·1	33·0 47·1 69·8	33·0 49·2 70·2	32·5 48·3 69·9	33·0 49·3 70·9	33·3 49·8 72·3	33·0 49·9 69·8
73 · 3	58 · 5	58.6	56.8	57.8	59 · 2	56.0	75 and over	126-4	95.3	108 · 2	107-6	113.3	111-9	105-9

^{*} Non-civilian casualties were not classified by marital condition before 1950. An approximate allowance has been made for them by rateable allocation.

Table XXX shows widowhood rates by age for selected periods between 1939 and 1957. These rates differ from ordinary death rates in being based on a selected population which excludes those persons whose health does not permit them to marry. Also, the deaths which generate these rates occur not at the specified ages but at ages distributed around a mean that is a little older than that of the married women whose husbands die (and conversely a little younger than that of the married men whose wives die). This difference is caused by the age differential at marriage. Nevertheless, the rates given in Table XXX reflect the main variations in mortality rates by sex and age and also the scale of annual changes. After allowance has been made for the above age differences, the death rates of husbands per thousand married women are rather higher than the death rates of wives per thousand married men.

The general level of the widowhood rates are of much more importance than small differentials within their main structure. The chance that a married woman aged 25 will become a widow before she is 45 is a little less than 1 in 20, which compares with a chance of 1 in 40 of dying herself before she reaches the age of 45. From Table XXX it is clear that the current level of mortality at ages under 45 is so low that the ending of marriages by the death of one of the partners is not seriously depleting the younger married population or in particular the population of married women in the reproductive age-groups.

DIVORCES

In 1957, 27,858 petitions for dissolution or annulment of marriage were filed in England and Wales. 23,785 decrees were made absolute during the year, or 2 per 1,000 married couples.

Table XXXI summarising the statistics in Table O of Part II for the last three decades, relates the number of petitions filed and of decrees absolute granted to the number of married women aged 20–49. The bulk of divorces occurs in this age range, and its use for the denominator in place of the total number of married couples gives the rates a rough measure of age standardisation.

Table XXXI. Divorce petitions filed and decrees absolute granted, 1931 to 1957, England and Wales

	Petition	ns filed	Decrees absolute granted			
Year	Number	Per 1,000 married women aged 20–49	Number	Per 1,000 married women aged 20–49		
1931–35†	4,784	0.80	4,011	0.67		
1936–40†	7,535	1.17	6,181	0.96		
1941-45†	16,075	2.30	10,389	1 · 49		
1946 1947 1948 1949 1950	43,163 48,501 37,919 35,191 29,729	6·09 6·81 5·28 4·87 4·09	29,829 60,254 43,698 34,856 30,870	4·21 8·47 6·08 4·82 4·24		
1951 1952 1953 1954 1955	38,382 34,567 30,542 29,036 28,314	5·23 4·69 4·14 3·93 3·83	28,767 33,922 30,326 28,027 26,816	3·92 4·60 4·11 3·79 3·62		
1956 1957	28,426 27,858	3·83 3·74	26,265 23,785	3·54 3·19		

[†] Annual average.

There has been an upward trend in the incidence of divorce in this country ever since the basis of the present divorce law was established a hundred years ago. Each of the two world wars added greatly to the otherwise slow increase. In the Commentary for 1956 (page 62) it was estimated that the war of 1939–45 may have doubled the divorce rate compared with what it would otherwise have been at the present time.

In addition to the considerable fluctuations caused by the upheaval of war the sequence of the figures is also disturbed by changes in the law such as the Matrimonial Causes Act, 1937, and enactments relating to financial assistance to litigants in need of it such as the Legal Aid and Advice Act, 1949*, as well as the changes in the time lag between petition and decree absolute. Apart from the accumulation of business for the courts this is influenced by the period between granting a decree *nisi* and making it absolute. Up to 30th April 1957, a decree *nisi* could not normally be made absolute for at least six weeks.

^{*} This act came into operation on 2nd October 1950.

This period was extended to three months by the Matrimonial Causes (Decree Absolute) General Order, 1957, which came into operation on 30th April 1957, and applied to proceedings instituted on or after that date. That is why decrees absolute in 1957 dropped so much more compared with 1956 than did petitions filed.

Nevertheless, the petition rates since 1954, by which time the disturbance caused by the 1949 Act must have worked itself out, do not show the usual rising trend and even suggest that a slight decline may have set in.

Rowntree and Carrier* recently studied the proportion of marriages ending in divorce according to year of marriage. They concluded that about 3 per cent of the couples married in the early nineteen twenties had been divorced by the time thirty years had elapsed, the majority of them after 1939. The marriage cohorts of the late thirties and early war years had fared much worse, 6 per cent having been divorced by 1955, so that the ultimate proportion for them was likely to be above that figure, perhaps as high as 10 per cent. The more recent cohorts have, however, had somewhat lower divorce rates so far than their immediate predecessors had at comparable marriage durations.

New Tables

The analysis of dissolutions and annulments made absolute was put on a new basis in 1957 and more detailed tables were introduced. They replace the former Tables P1 to P4, and classify the decrees absolute by the following characteristics:

- P1 Party to whom and grounds on which decree granted
- P2 Present age of husband and wife (numbers and rates)
- P3 Marriage ages of husband and wife in combination P4 Wife's marriage age and duration (numbers and rates)
- P5 Wife's marriage age and surviving children of present marriage
- P6 Wife's marriage age and the marital condition of both parties before the marriage in combination.

In addition Part II for 1957 contains two supplements to these tables which it is intended to publish only at intervals of several years as more data accumulate, because of their complexity and consequent small cell size:

Supplement to P3 Year of marriage and marriage ages of husband and wife in combination

Supplement to P6 Year of marriage and (a) husband's, (b) wife's age at and marital condition before the marriage.

Some improvements have been made in the data. In particular the marriage ages are now those stated on the original marriage certificate, and the present ages (i.e. those at the date of the decree absolute) are estimated from the marriage ages, treated as six months after the last birthday, by adding the marriage duration correctly rounded to the nearest integral year. The durations are calculated as for maternities, i.e. as the difference between the calendar month of marriage and the notional month containing the date of the decree absolute. The notional month of, e.g. June, runs from 16th June to 15th July inclusive.

The number of cases where the marriage age was not stated (a little over 1 per cent) was found to be rather larger than would have been expected from the marriage statistics. The excess seems to consist of cases where the marriage was contracted abroad and no document showing the age at marriage could be produced to the divorce court. They have been omitted from Tables XXXII and XXXIII.

^{*} Griselda Rowntree and Norman H. Carrier, *The Resort to Divorce in England and Wales*, 1858–1957, "Population Studies", Vol. XI, No. 3 (March 1958), pp. 188–233.

Rates

Estimates of the population exposed to risk are available only by present age of husband or wife (Table P2) and by wife's marriage age and duration at present ages under 50 (Table P4). Hence true divorce rates per 1,000 existing married couples can be given only for these. To get an idea of the relative incidence of divorce according to the other characteristics, and of the order of magnitude of the true rates, some rates may be calculated on the basis of the original number of marriages, whether or not they are still in existence in the year under review. This has been done approximately in Tables XXXII and XXXIII. (The divorces of couples married before 1935 have been related to the marriages of 1925–34.)

Rates based on the true population, i.e. the number of women (or men) still married, are larger than rates based on the original number of marriages, the more so the longer the marriage duration. They will exceed the latter rates by the proportion by which the original marriages exceed those still in existence. For previously single wives married at ages under 35 since 1935 the excess is shown in the following statement. (It will be larger for marriages before 1935, for older marriage ages and for previously divorced wives.)

Percentage excess of original marriages of spinsters over population in 1957 of women married once only

Calendar year of marriage	Age at marriage							
	Under 20	20–24	25–29	30-34				
1949–53 1945–48 1940–44 1935–39	1·2 11·3 22·7 23·8	2·2 7·7 19·6 20·1	2·8 6·9 14·7 17·5	3·4 8·3 16·8 not available				

The ratios clearly show the difference made by marriage duration (and by the war), but also that made by age—as marriage age rises, most of the ratios at first decline as a result of falling divorce incidence, but increase again after age 30 as a result of rising mortality and widowhood.

Parties to whom and grounds on which decrees granted

Decrees are classified by the parties to whom they are granted and by all the grounds on which they were granted. This is an advance on previous statistics which were classified by the first ground mentioned in the original petition for divorce. The figures are given in Table P1.

Of the 23,785 decrees made absolute in 1957, 2 per cent were annulments and the remainder dissolutions. They were distributed as follows by party to whom granted:

Type of decree		Normalian	F	Party to whom gi	ranted (per ce	ent)
		Number	Total	Husband	Wife	Both
Annulments		23,785 462 23,332	100 100 100	45 56 45	54 42 54	0·4 2 0·3

Adultery, desertion or cruelty were the grounds in 99 per cent of all dissolutions. Those granted to one party on one ground were distributed thus:

Per cent

Ground	Granted to husband on ground of wife's—	Granted to wife on ground of husband's-		
All grounds	100	100		
Adultery	56 41 2 1·2 0·3	38 37 24 0.6 0.3		

Ages and prior marital condition of parties, duration of marriage

Present age

Dissolutions and annulments by age of husband and of wife at the date of the decree absolute are given in Table P2 together with rates per 1,000 married men or women.

The total rate in 1957 was 2 per 1,000 married couples. For husbands it rose from about 1 per 1,000 in the age-group 20–24 to between 3 and 4 per 1,000 in the age-range 25–39, than fell off again to about 1 per 1,000 at ages 50–59 and a fractional value over age 60. For wives the proportion was 2 per 1,000 in the age-group 20–24 and 4 per 1,000 at 25–29, declining slowly to 2 per 1,000 at 40–49, 1 per 1,000 at 50–59 and a small fraction thereafter.

Marriage ages of husband and wife in combination, by year of marriage

Table P3 shows the marriage ages of husbands and wives in combination, and the Supplement divides the decrees further by calendar year of marriage. Approximate rates are shown in Table XXXII; they are based on the original number of marriages and are subject to the qualifications mentioned on page 49.

Table XXXII. Divorce rates per 1,000 related marriages, by marriage ages of husband and wife in combination and calendar year of marriage, 1957, England and Wales

Age of wife	Age of husband at marriage								
at marriage	All ages	Under 20	20–	25-	30-	35 and over			
		Person	s married in	n the years 194	9–53				
All ages	4.0	11.1	5.0	3.3	2.9	2.5			
Under 20 20- 25-	8·2 3·8 3·0	12·0 9·0 12·4	8·0 4·0 3·8	6·8 3·0 2·7	3·6 2·5	8·8 5·0 3·8			
30– 35 and over	2·6 2·0	annovaria	3·3 3·7	3·0 4·3	2·3 2·8	2·5 1·8			

Table XXXII--continued

Age of wife			Age of husba	and at marria	ge				
marriage	All ages	Under 20	20-	25-	30-	35 and over			
		Person	ns married in	the years 194	15–48				
All ages	3.3	7.3	4.2	3.2	2.7	1.7			
Under 20 20- 25-	6·6 3·4 2·5	7·4 6·9 10·9	6·4 3·5 3·3	6·6 3·1 2·3	6·1 3·3 2·2	7·8 4·3 2·4			
30– 35 and over	2·4 1·3	29.9	4·8 5·9	2·5 5·6	2·3 2·1	2·1 1·0			
Persons married in the years 1940–44									
All ages	2.2	4.4	2.7	1.9	2.0	1.1			
Under 20 20– 25–	3·9 2·3 1·6	4·9 3·5 4·9	3·7 2·5 2·2	3·5 1·9 1·4	5·8 2·5 1·5	4·4 3·7 1·7			
30– 35 and over	1·5 0·7	27.8	2·9 3·8	1·7 3·0	1·6 1·4	1·2 0·5			
		Persor	ns married in	the years 193	5-39				
All ages	1.6	4.4	2.3	1.4	1.1	0.5			
Under 20 20- 25-	3·5 1·9 1·0	4·8 3·6 4·3	3·4 2·1 1·5	3·2 1·6 1·0	3·1 1·7 0·9	2·5 1·8 0·9			
30- 35 and over	0·9 0·3	contracted attracted .	1·8 2·3	1·1 1·3	0·9 0·5	0·6 0·2			
	Persons married before 1935								
All ages	1.2	3.2	2.0	1.0	0.6	0.2			
Under 20 20– 25–	3·2 1·6 0·7	3·5 2·8 3·5	3·3 1·9 1·2	2·7 1·2 0·7	2·0 1·1 0·4	1·7 0·7 0·2			
30– 35 and over	0·3 0·1	, =	1·4 0·4	0·5 0·4	0·3 0·2	0·1 0·1			

The younger the marriage age, the higher were the divorce rates. This was true for husbands and wives separately and also, generally speaking, for the age of one of them within a given age-group of the other. The few apparent exceptions may be due to chance fluctuations caused by small numbers or to the second noticeable feature: within the pattern of high rates going with young marriage ages, high divorce rates are associated with the widest differences in marriage age.

Marriage age of wife by duration of marriage

Table P4 shows the decrees absolute by marriage age of wife and duration of marriage, with (true) rates in those cells where the wife was under age 50 at the date of decree.

Comparison of these rates with those in Table P2 shows clearly that marriage age exerts a much greater influence than current age. There is a very regular progression in the rates of Table P4: they fall with advancing marriage age—those for women married before their twentieth birthday are about twice as high throughout as those for the marriage age-group 20–24; and they fall with lengthening marriage duration (allowing for the fact that petitions may not normally be filed within three years of the marriage).

Hence they are highest in the duration range 4–11 years, being about 8 or 9 per 1,000 for the under 20 marriage age-group, 4 per 1,000 for those 20–24 at marriage, and 3 per 1,000 for those over 30. Even at duration 20–24 years the rate for those aged under 20 at marriage is still 4 per 1,000, and for those aged 20–24, 2 per 1,000.

Previous marital condition by marriage age and year

In Table P6 the decrees absolute are analysed by the marital condition of both parties before the marriage in combination, within age-groups of wife at marriage. The Supplement gives them by marriage age and year for each previous marital condition, separately for husbands and wives. From the latter the rates in Table XXXIII (based on the original marriages) have been derived.

Table XXXIII. Divorce rates per 1,000 related marriages, by husband's or wife's age at and marital condition before the marriage and calendar year of marriage, 1957, England and Wales

Calendar year	Previous marital		Age at marriage							
marriage	condition	All ages	Under 20	20-	25-	30-	35 and over			
Husbands										
1949–53	Single Widowed Divorced	4·1 1·9 5·0	11·1 	5·0 4·4 9·9	3·2 2·8 7·7	2·4 3·9 5·9	2·2 1·8 4·0			
1945–48	Single Widowed Divorced	3·5 1·3 4·1	7.3	4·2 10·0 6·2	3·0 4·4 7·8	2·4 3·0 4·5	1·7 0·9 3·0			
1940–44	Single Widowed Divorced	2·3 0·8 2·9	4.4	2·7 9·4 16·9	1·9 2·1 4·5	1·9 2·5 5·2	1·3 0·6 2·1			
1935–39	Single Widowed Divorced	1·7 0·5 2·1	4.4	2·3 1·4	1·4 1·5 3·8	1·0 1·7 3·9	0·6 0·3 1·4			
B efore 1935	Single Widowed Divorced	1·3 0·2 0·7	3.2	2·0 3·5	1·0 1·2 2·5	0·6 0·4 1·0	0·2 0·1 0·4			

Calendar year of	Previous marital	Age at marriage							
marriage	condition	All ages	Under 20	20-	25-	30-	35 and over		
Wives									
1949–53	Single Widowed Divorced	4·1 2·2 4·7	8·2 27·0	3·7 7·7 8·8	2·7 4·1 6·0	2·0 2·2 4·6	1·4 1·9 3·4		
1945–48	Single Widowed Divorced	3·4 1·8 4·7	6·6 8·3 —	3·4 3·7 9·5	2·2 2·6 6·4	1·9 2·6 4·7	1·0 1·1 2·7		
1940-44	Single Widowed Divorced	2·3 1·2 3·8	3.9	2·3 4·1 13·4	1·5 3·4 6·9	1·3 3·0 3·9	0·6 0·6 2·3		
1935–39	Single Widowed Divorced	1·6 0·6 2·3	3.5	1·9 2·7 2·0	1·0 2·3 3·9	0·8 1·6 3·9	0·3 0·2 0·8		
Before 1935	Single Widowed Divorced	1·3 0·3 0·9	3·2 90·9	1·6 4·9 3·1	0·7 1·1 1·9	0·3 0·4 1·0	0·1 0·1 0·2		

Generally speaking the rates are lowest for first marriages and highest for persons previously divorced, with the previously widowed in between, nearer to the single in the case of husbands. An exception are husbands aged 35 and over at marriage, among whom the rates of the previously widowed are clearly the lowest. For all marriage ages combined the rates of the previously widowed are much the lowest in both sexes (with those of the divorced still the highest), but this is only because of the different marriage age distributions of the three groups.

These rates being based on the original marriages the true differentials will be slightly larger in the same direction. For the greater divorce risk of the previously divorced, for example, means that relatively fewer of their original marriages will have survived to 1957 from a given marriage year, and therefore in this group the rates per 1,000 married women would exceed the rates per 1,000 original marriages by more than in the corresponding group of first marriages. Similarly, the differences between the rates of the various marriage cohorts reflect partly the influence of marriage duration (better illustrated in Table P4) and partly the differences between the two kinds of rates. To compare the experience of different marriage cohorts enough data will have to be accumulated to make the comparison at equal marriage durations.*

Children of the marriage

The 23,785 marriages dissolved or annulled in 1957 had altogether 30,765 children who were alive at the date of petition (irrespective of age, and including children legitimated by the marriage and adopted children but no other children of the parties†). 7,995 of these marriages (about a third) were childless and 7,309 (nearly another third) had one child, 1,567 (less than 7 per cent) had four or more children. The proportions in each marriage age-group are shown in Table XXXIV.

^{*} See Rowntree and Carrier, article quoted on page 48 above, Table 10.

[†] Where the petition was filed on or after 30th April 1957, children of the couple born before the marriage but not legitimated are also included.

Table XXXIV. Percentage distribution of marriages dissolved or annulled by number of children, 1957, England and Wales

Age of wife	Number of children							
at marriage	Total	0	. 1	2	3	4 and over		
All ages	100	33	31	21	8	7		
Under 20 20- 25- 30- 35 and over	100 100 100 100 100	21 31 43 58 81	32 32 30 27 13	25 22 19 11 4	12 9 5 2 2	10 6 3 2 0		

Corresponding figures for the population of married couples in 1957 are not available. Some proportions from the 1951 Census are shown in Table XXXV, but they are not quite comparable because they relate to all live births to the women concerned, not to surviving children of the present marriage, and because the particulars are only available for women under age 50 at the census. The last column gives approximate proportions childless for those of them aged 45–49 at the census; if those for women of all ages were available they would probably lie between these and the ones in the main part of the table, nearer to the under 50 proportions at young marriage ages where the two sets differ most. In 1957 the proportion of childless or one-child families, and possibly of families with four or more children, may well have been slightly smaller than in 1951.

Table XXXV. Percentage distribution of married women under age 50 at census by number of children born alive, 1951, England and Wales

A 6 '6.		Women 45–49 at census							
Age of wife at current marriage	Number of children								
	Total	0	1	2	3	4 and over	0		
All ages	100	21	31	26	12	10	20		
Under 20 20- 25- 30- 35 and over	100 100 100 100 100	12 19 25 35 51	27 31 33 32 24	27 28 26 20 13	15 12 10 8 6	19 10 6 5 6	5 11 21 35 54		

The proportions of women who are childless rise with marriage age among the divorced as they do in the general population. The comparison suggests, however, that divorce rates among childless couples may be something like twice as high as the average for the marriage age-group concerned, perhaps not quite so much in the oldest groups.

Approximate rates were calculated for 1950 in the 1946–50 Civil Text Volume (page 67). These were in terms of wife's age at date of decree absolute, not at marriage. They showed that divorce rates were highest for childless couples and declined with increasing family size.

GENERAL MORTALITY

In 1957 there were 514,870 deaths registered in England and Wales, 266,407 being of males and 248,463 of females. This represents a decrease of 1,497 in the male and 4,964 in the female deaths compared with 1956.

Unless otherwise stated, the deaths recorded in the Statistical Review are those registered in the calendar year and not deaths which occurred in that year. The deaths recorded include deaths of non-civilians and foreign visitors. Deaths of non-civilians are not shown separately.

Definitions

Home population.—This consists of the resident civilian population, together with members of British, Commonwealth and foreign armed forces stationed in the country at the time.

Area of usual residence.—In all areal tables deaths are classified according to the area of usual residence of the deceased. The inmates of certain categories of institutions, as, for example, alms-houses, homes for old people and boarding schools, are regarded as normally resident in those institutions. The definition of usual residence was modified in 1953, the chief alteration being that people dying in hospitals for the chronic sick and in mental and mental deficiency hospitals were regarded as being resident in the hospital. The effect of this change was to increase substantially the death rate in some of the smaller areas with large institutional populations. In 1956 and 1957 a slight modification was made by not including certain chronic sick hospitals, owing to the short average duration of stay of patients in them.

Crude death rates represent the total number of deaths from all causes or from a specified cause during the year, per thousand or per million of the estimated mid-year home population.

Sex-age specific death rates are calculated for all or specified causes by dividing the number of deaths of persons in the selected group by the corresponding number of persons in the mid-year population, the rate being expressed per thousand or per million. Exceptions to the use of estimated populations occur in the calculation of infant mortality rates (deaths of infants in various periods of the first year of life) which are based on the number of live births, and in the calculation of stillbirth and perinatal mortality rates (stillbirths and deaths of infants in the first week of life) which are based on the total number of births, both live and still. Maternal mortality rates (death rates of women associated with childbearing) are often expressed in terms of total live and still births. In these rates the deaths are those registered in the calendar year, but the live and still births are those which occurred in the year.

Standardised death rates are of two types, those used to compare mortality trends in a given area or group over the course of some years, and those used to compare death rates in different areas or groups in a given year.

The comparative mortality index (C.M.I.), which replaced the standardised death rate in use until 1941, is used to compare mortality trends in different years, after allowing for changes in the sex-age structure of the population. The methods of calculation and a discussion of its advantages over the former standardised rate may be found on pages 6–11 of the *Medical Text* volume for 1940–45. Briefly, it represents the ratio of the adjusted death rates of the year in question to those of a base year (at present 1938), each calculated by weighting the death rates of the various sex-age groups by the arithmetic mean of the corresponding proportions of the mid-year populations living in the two years. If the death rate of a sex-age group in the year to which the index relates is denoted by M and the corresponding rate in 1938 by M', and if r and r' are the proportions of the total population falling within that group

C.M.I. =
$$\Sigma$$
 M (r + r')/ Σ M' (r + r')

where Σ denotes the summation over all the sex-age groups.

The comparative mortality index can only be used to make comparisons between years for the same category of persons, for example, either males or females. It cannot be used to compare the death rates of males with those of females in any year, because the age-structure of the standard population differs for the two sexes. This comparison can, however, be made with the adjusted ratio of male to female mortality shown in Table 3 of Part I of the Review. The method of calculation is similar to that of the C.M.I. except that the age-specific death rates for the two sexes are weighted by the mean of the corresponding proportions of the mid-year populations for the year in question.

Area comparability factors (A.C.F.) enable standardised comparison to be made of death rates for all causes in different areas. They are calculated by a method of indirect standardisation (fully described on pages 30, 32, and 57 of the 1954 Commentary). The area comparability factors for 1956 and 1957 have been adjusted so that they also spread the deaths and the populations in chronic sick and mental and mental deficiency hospitals over all areas in the country in proportion to the non-institutional population.

Local adjusted death rates are obtained by applying area comparability factors to the local crude death rates. They can be compared with the rate for England and Wales as a whole in the same year. The A.C.F.s shown in Table 12 of Part I should be used only for adjusting death rates from all causes. If it should be desired to compare local mortality rates for particular causes, a special series of area comparability factors would have to be calculated, based on mortality from those causes.

The equivalent average death rate (E.A.D.R.) is the arithmetic mean of the rates in quinquennial groups of ages over some convenient age range, e.g. 0-4, 5-9, up to 60-64, this being equivalent to calculating a standardised death rate at ages under 65 based on a population uniformly distributed over the 13 age-groups.

The general trend of mortality

Table XXXVI (page 57) shows for each sex the crude death rate and the comparative mortality index for all ages during 1841 to 1957. The crude death rate of $12 \cdot 3$ per 1,000 living for males in 1957 was $0 \cdot 2$ per 1,000 less than the rate in 1956; the female rate also decreased by $0 \cdot 2$ per 1,000, from $10 \cdot 9$ in 1956 to $10 \cdot 7$ in 1957. The C.M.I., which takes into account the varying agestructure of the population from year to year, also showed decreases in 1957 as compared with 1956 for both sexes, and the female rate of $0 \cdot 74$ was the lowest for any of the single years shown in the table.

Table XXXVI. Crude annual death rates per 1,000 living, and comparative mortality indices, 1841–1950 and 1941 to 1957, England and Wales

Period		eath rate 00 living	Comparative mortality index* (1938 base)				
	Males	Females	Males	Females			
1841–1850	23·1 23·1 23·7 22·7 20·3	21·6 21·4 21·4 20·1 18·1	2·12 2·09 2·14 2·09 1·93	2·44 2·37 2·37 2·27 2·10			
1891–1900	19·3 16·4 15·1 12·9 13·0 12·5	17·1 14·4 13·0 11·4 11·5 10·9	1·87 1·60 1·45 1·16 1·07	2·01 1·69 1·49 1·22 1·10 0·89			
1941 1942 1943 1944 1945	14·0 12·5 12·7 12·6 12·3	11·8 10·5 11·1 10·7 10·7	1·10 0·97 0·98 0·95 0·92	1·04 0·92 0·94 0·89 0·88			
1946 1947 1948 1949	12·2 12·9 11·5 12·3 12·3	10·9 11·2 10·1 11·1 11·0	0·89 0·92 0·82 0·86 0·85	0·88 0·89 0·79 0·85 0·83			
1951 1952 1953 1954	13·4 12·2 12·2 12·2 12·5	11·8 10·5 10·7 10·5 10·9	0·92 0·84 0·84 0·83 0·84	0·88 0·78 0·78 0·76 0·77			
1956	12·5 12·3	10·9 10·7	0·84 0·83	0·76 0·74			

^{*} Civilians only, 1914-1918 and 1939-1949.

Expectation of life

The expectation of life is the average number of years which would be lived by a group of people of given age who are continuously subject to given mortality rates, usually those of a selected year or years.

An abridged life table, based on the total deaths registered in 1955 to 1957 is shown in Table XXXVII (page 58). The columns headed l_x show the number of persons who would survive to given age x and those headed \mathring{e}_x show the average length of life which would be lived by persons aged x if they continued to be subject to the death rates of 1955–57. On this basis 97 per cent of males and 98 per cent of females might expect to reach the age of 5, and 96 per cent of males and 97 per cent of females to reach the age of 15. Seventy-eight per cent of men might expect to reach the age of 60, compared with 86 per cent of women, and the males could expect an average future lifetime of 15 years, compared with about 18 years 9 months for females.

Table XXXVII. Abridged life table, 1955-57, England and Wales

Ma	iles	Age	F	emales
l_x	$\overset{\circ}{e_x}$	x	l_x	$\overset{\circ}{e_x}$
10,000	67.71	0	10,000	73 · 29
9,731	68 · 58	1	9,793	73 · 84
9,715	67 · 69	2	9,778	72 · 95
9,706	66 · 75	3	9,769	72 · 02
9,698	65 · 80	4	9,763	71 · 06
9,691	64·85	5	9,758	70·10
9,668	60·00	10	9,741	65·21
9,648	55·12	15	9,726	60·31
9,606	50·35	20	9,707	55·42
9,552	45·62	25	9,680	50·57
9,499	40·86	30	9,645	45·75
9,437	36·11	35	9,595	40·97
9,346	31·44	40	9,524	36·26
9,204	26·89	45	9,413	31·66
8,959	22·55	50	9,243	27·19
8,529	18·56	55	8,989	22·89
7,819	15·02	60	8,609	18·79
6,791	11·92	65	8,019	14·99
5,447	9·24	70	7,118	11·57
3,870	6·99	75	5,784	8·66
2,246	5.24	80	4,047	6.31
943	4.02	85	2,167	4.61

This abridged life table is constructed from the estimated home population in 1955, 1956, and 1957, and the total deaths registered in those years.

The column headed l_x shows, for each sex, the numbers who would survive to exact age x out of 10,000 born who were subject throughout their lives to the recorded age death rates of the period,

Column e_x is the "expectation of life", that is, the average future lifetime which would be lived by persons aged exactly x, if likewise subject to those death rates.

Table XXXVIII (page 59) shows that in 1957 the expectation of life at birth was 68 years for males and 74 years for females. Those who survived the first year of life had expectations of 69 years and 74 years for the two sexes respectively.

Table XXXVIII. Expectation of life at birth and at age 1 year, 1838–1932, and 1943 to 1957, England and Wales

			Expectation	on of life at	
From English Life Table	Year	Bi	rth .	Age	l year
		Males	Females	Males	Females
No. 1	1841 1838–44 1838–54 1871–80 1881–90 1891–1900 1901–10 1910–12 1920–22 1930–32	40 40 40 41 44 44 49 52 56 59 66	42 42 42 45 47 48 52 55 60 63	47 47 47 48 51 52 56 58 60 62	48 47 47 50 53 55 58 60 63 65
From annual Abridged Life Tables	1943 1944 1945 1946 1947 1948 1949	62 62 63 65 64 66 66	67 68 69 69 69 71 71 71	64 64 65 67 67 68 68	69 70 71 71 71 71 72 72 72
	1951 1952 1953 1954 1955 1956 1957	67 67 68 68 68 68	71 72 72 73 73 73 73 74	68 68 69 68 69 69	72 73 73 74 74 74 74 74

Seasonal variation in mortality

Table XXXIX (page 60) shows the annual death rates per 1,000 living for each quarter from 1931, and the ratio of each to the corresponding yearly rate taken as 100. In 1957 the highest rate, 13·4 per 1,000, occurred in the December quarter. In the other years, with the exception of 1943, the death rates were highest in the March quarter; the death rate of 12·2 per 1,000 in 1957 was the lowest rate shown for this quarter.

Table XXXIX. Annual death rates per 1,000 living, by quarters in each year 1931 to 1957, with ratios to each yearly rate taken as 100, England and Wales

	De	eath rate	per 1,000 li	ving	Ratio	to yearl	y rate taken	as 100
Year	March	June	September	December	March	June	September	December
1931	16·5	11·5	9·6	11·7	134	93	78	95
1932	15·4	11·6	9·7	11·5	128	97	81	96
1933	17·1	10·8	9·4	12·0	139	88	76	98
1934	14·6	11·8	9·6	11·2	124	100	81	95
1935	13·2	12·0	9·8	12·0	113	103	84	103
1936	15·1	11·8	9·7	12·0	125	98	80	99
1937	16·2	11·6	9·7	12·3	131	94	78	99
1938	13·6	11·6	9·9	11·5	117	100	85	99
1939	15·1	11·7	9·9	11·8	125	97	82	98
1940	20·6	11·9	10·8	14·1	143	83	75	98
1941	18·4	14·2	10·1	11·5	136	105	75	85
1942	15·8	12·0	9·8	11·6	128	98	80	94
1943	14·5	11·7	10·1	15·7	112	90	78	121
1944	15·3	12·0	11·0	12·7	120	94	87	100
1945	16·5	11·5	10·0	12·6	131	91	79	100
1946	15·4	11·2	9·7	11·9	128	93	81	99
1947	17·6	11·3	9·2	11·4	143	92	75	93
1948	12·4	10·3	9·4	11·7	113	94	85	106
1949	15·2	11·2	9·3	11·8	129	95	79	100
1950	14·0	11·1	9·3	12·3	120	95	80	106
1951	19·1	11·1	9·1	11·0	153	89	73	88
1952	13·4	10·6	8·9	12·4	119	94	79	110
1953	15·8	10·4	8·9	10·7	139	91	78	94
1954	14·0	10·6	9·3	11·4	124	94	82	101
1955	15·4	11·2	9·1	11·1	132	96	78	95
1956	15·3	10·8	9·3	11·3	131	92	79	97
1957	12·2	10·6	9·7	13·4	106	92	84	117

Table XXXIX is based on deaths registered in the four quarters; the quarterly rates based on deaths occurring in the four quarters would be as follows for 1956 and 1957:

Year	March quarter	June quarter	September quarter	December quarter
1956	15·3	10·7	9·4	11·3
1957	12·2	10·6	9·6	13·5

As 1956 was a leap year, the March quarter contained one more day than the corresponding quarter of 1957; a small decrease in the number of deaths occurring in the latter would therefore be expected. The following table (based on Table 23 of Part I) shows that for most of the 17 main diagnostic groups of the International Statistical Classification, the deaths in the first quarter were considerably fewer in 1957 than in 1956. In particular, deaths from diseases of the respiratory system in the March quarter of 1957 were only 54 per cent of

those in the corresponding quarter of 1956. It appears that the mild weather experienced in parts of the March quarter of 1957 had a beneficial effect in reducing mortality, not only from respiratory diseases, but from other causes as well.

I.Ş.C.	Cause of death	Dea:	ths occurr Iarch quar	ing in		ths occurr cember qu	
Nos.		1956	1957	Decrease in 1957	1956	1957	Increase in 1957
001–138	Infective and parasitic						
140-239 240-289	diseases Neoplasms Allergic, endocrine	2,730 23,817	2,069 23,374	661 443	1,967 24,287	2,178 25,080	211 793
290–299	system, metabolic, nutritional diseases Diseases of blood and	2,392	1,717	675	1,700	2,005	305
300-326	blood-forming organs Mental, psychoneuro-	576	515	61	487	567	80
330-398	tic and personality disorders Diseases of the nervous	327	322	5	303	240	- 63
400 460	system and sense organs	25,024	21,291	3,733	19,479	21,880	2,401
400-468	Diseases of the circu- latory system	63,741	50,838	12,903	47,614	55,152	7,538
470–527	Diseases of the respiratory system	29,765	16,144	13,621	12,706	26,315	13,609
530-587	Diseases of the diges- tive system	4,644	4,114	530	3,830	4,117	287
590–637	Diseases of the genito- urinary system	3,391	2,927	464	2,883	2,960	77
64 0–689	Deliveries and complications of pregnancy.	3,371	2,721	404	2,005	2,500	,,
690-716	etc	110	86	24	103	81	— 22
	Diseases of the skin and cellular tissue	146	103	43	105	138	33
720–749	Diseases of the bones and organs of move-						
750-759	ment	585	495	90	434	497	63
760–776	tions Certain diseases of early	1,253	1,264	11	1,173	1,253	80
	infancy	2,561	2,362	199	2,311	2,384	73
780–795	Symptoms, senility and ill-defined conditions	3,094	2,088	1,006	1,979	2,131	152
E800- E999	Accidents, poisonings, and violence (external cause)	5,923	5,317	606	5,487	6,094	607
	All causes	170,079	135,026	35,053	126,848	153,072	26,224

For the December quarters the position was reversed, and for most of the diagnostic groups shown in the table the deaths in the fourth quarter of 1957 were in excess of those in the corresponding quarter of 1956. Deaths from diseases of the respiratory system in the December quarter of 1957 were more than double those in the corresponding quarter of 1956. One reason for the greater number of deaths in 1957 was the epidemic of Asian influenza which reached a peak in October and January but continued to cause increased

mortality for several months after. The numbers of deaths from respiratory diseases occurring in the last three months of 1956 and 1957 were as follows:

Cause of death (and I.S.C. Nos.)	Year	October	November	December
Influenza (480–483)	1956	39	88	125
	1957	3,527	827	788
Pneumonia (490–493)	1956	1,262	1,577	2,092
	1957	2,987	2,046	3,815
Bronchitis (500–502)	1956	1,504	2,133	2,710
	1957	2,963	2,397	5,334
Other respiratory diseases (Rem. 470–527) {	1956	316	401	459
	1957	505	433	693
Diseases of the respiratory system (470-527)	1956	3,121	4,199	5,386
	1957	9,982	5,703	10,630

In particular the deaths in December 1957 were nearly double those in December 1956. This increase and the general increase in deaths in the last quarter of 1957 as compared with 1956 were the result of the influenza epidemic.

Death rates by sex and age

Table XL (page 63) shows the trend in the average annual death rates by sex and age since 1841. The male rates at ages 5-64 and the female rates at ages under 65 were slightly higher in 1957 than in the preceding year. For both sexes there was a decrease in the rates at ages 65 and over. Whereas in 1951-55 the average male rate at ages 85 and over was 43·9 per 1,000 more than the female rate, in 1956 the male excess was 33·5 and in 1957 only 27·6 per 1,000.

Causes of death at different ages

Table XLI (page 64) shows the death rates per million living from selected causes at different ages. Causes of death at ages under one year are discussed in the Infant Mortality chapter (pages 74–91).

Table XL. Average annual death rates per 1,000 living, by sex and age, 1841-1955, 1956 and 1957, England and Wales

	85 and over	293.2 289.0 285.0	296.4 271.0 261.3	249.4 250.9 245.4 241.9	241.2 254.4 245.0 253.0	207·0 208·9 222·0	222·7 199·2
	-59	82·4 80·0 79·8	80.9 78.9 79.5	72.5 70.8 69.5 65.9	64·0 62·5 61·0 60·1	52·6 52·1 51·9	51.0
	45-	21·1 20·1 20·6	21.0 20.6 20.3	18·1 16·9 16·0 14·4	12.8 11.9 11.5	9.86 8.79 8.02	7.55
Females	25-	11.6 10.9 10.7	9.92 8.76 7.58	6.34 5.60 5.17 5.91	3.97 3.67 3.67 3.22	2.84 2.17 1.60	1.40
Fen	15-	8.50 7.98 7.30	6·12 4·97 4·06	3.34 3.05 3.00 4.06	2.83 2.67 2.51 2.17	1.98 1.29 0.60	0.45
	7	7.27 6.84 6.25	5.05 4.23 3.49	3.03 2.78 2.75 3.18	2.05 1.90 1.71 1.40	1.13 0.59 0.37	0.30
	-0	61.2 63.0 63.7	58·3 51·9 52·8	45.8 38.0 34.0 28.4	21.8 18.5 16.0 13.7	12.3 8.14 5.40	4.98
	All	21.6 21.4 21.4	20·1 18·1 17·1	15.0 13.8 13.8 12.8	11.4	10.9	10.9
	85 and over	312·3 308·3 315·0	327·4 306·0 286·7	274·6 283·0 281·6 267·8	272·7 298·1 278·9 286·9	227·0 241·6 265·9	256.2
	-69-	89.9 86.8 87.7	90.2 89.4 89.4	83.4 82.0 81.7 81.1	76·3 76·3 75·1 76·2	69.0	75.8
	45-	23.6 23.2 24.8	26·1 25·5 25·2	23.0 21.7 21.0 19.5	16.9 17.0 16.6 17.3	15.7 14.5 13.9	13.5
Males	25-	11.2 10.9 11.5	9.79 8.82	7.59 6.76 6.76 7.61	5.24 4.84 3.95	3.72 2.58 2.05	1.85
W	15-	8·23 7·71 7·26	6·24 4·97 4·38	3.77 3.45 3.69 4.85	3.06 2.93 2.81 2.81	2.99 1.42 1.05	0.93
	5-	7.24 6.79 6.43	5.29 4.20 3.40	2.93 2.67 3.11	2·10 2·06 1·84 1·60	1.44 0.79 0.52	0.43
	-0	71.3	68·4 61·6 62·7	54.7 45.4 40.9 34.4	27·0 23·1 20·1 17·5	15.5 10.5 6.95	6.49
	All	23·1 23·1 23·7	22.7 20.3 19.3	17.1 15.6 15.5 14.9	12.9 12.9 12.7 13.3	12.8 12.2 12.5	12.5
		:::	:::	::::	::::	:::	::
		1841–1850 1851–1860 1861–1870	1871–1880 1881–1890 1891–1900	1901–1905 1906–1910 1911–1915 1916–1920	1921–1925 1926–1930 1931–1935 1936–1940	1941–1945 1946–1950 1951–1955	1956

Table XLI. Death rates by sex from certain causes at different periods of life, 1957, England and Wales

(Classified in accordance with the International Abbreviated List, with certain subdivisions)

	Cause of death	All ages	Under 4 weeks	weeks and under 1 year	1-	5-	15	25-	45-	65-	75 and over
Abbrevi- ated List Nos.	Cualo of donor	Rates per million living	Rates 1,000 occurr	birth			Rates	per mil	llion livir	ng	
	Estimated mid-year popu- { M lation (in thousands) { F	21,648 23,259	372 351	,298* ,083*	1,350 1,282	3,546 3,387	2,757 2,775	6,160 6,265	5,408	1,396 2,009	674 1,187
	ALL CAUSES $$ ${M \atop F}$	12,306 10,682	18·68 14·10	7·09 6·20	1,039 898	462 323	1,029 494	1,856 1,406	13,706 7,591	54,000 30,916	133,534 102,060
B 1	Tuberculosis of respira- { M tory system F	146 47	0.00	0.01	1 3	1	8 9	73 72	284 54	605 88	436
B2	Tuberculosis, other forms \ \ \frac{M}{F}	12 12	_	0.01	12 21	5 4	7 6	11 8	17	25 30	91 27 33 252
В3	Syphilis and its sequelae ${M \choose F}$	41 18	-			o _o	0	6 3	62	239 64	252 125
В4	Typhoid fever $\left\{ \begin{array}{ll} M \\ F \end{array} \right\}$	0			-1	-0	_0	-	-0	1	- 1
B5	Cholera $\binom{M}{F}$	_				_		_			=1
B 6	Dysentery, all forms $$ M_F	1 0		0.01	1	-0			1 0	1	3 2
В7	Scarlet fever and strepto- M coccal sore throat	1	_	0.00	1	o o	_	1 0	0	1	2 1 2
В8	Diphtheria $\binom{M}{F}$	00		_	1	_	_	-0	-0	-0	-,
В9	Whooping cough $\ldots \begin{Bmatrix} M \\ F \end{Bmatrix}$	2 2	0.00	0·06 0·12	6	-,		ő	_		- 1
B10	Meningococcal infections { M	4	0.00	0.11	25 24	2	1	0	1	3 2	- 3
B11	Plague $\binom{M}{F}$	_		_				_			
B12	Acute poliomyelitis $$ $\begin{cases} M \\ F \end{cases}$	7 4		0.01	4	6 5	7 4	13	2	. 1	-,
B13	Smallpox	0				ő					1
B14	Measles $\begin{cases} M \\ F \end{cases}$	0 2 2	_	0·03 0·02	21 16	3	1			-	_
B15	Typhus and other SM rickettsial diseases F		_	-		-	_		_		
B16	Malaria	0		_		_		0	-0	- Contraction	- ;
B17	All other diseases classi- \(\) M	23	0.04	0·07 0·06	24 20	11	9	12 10	32	43	82
B18 {	fied as infective and F parasitic Malignant neoplasm: { M (140-205) } first stomach (151) { M F } trachea, bronchus and M lung (162, 163) } foreast (170) { M F } futerus (171-174) F Leukaemia and aleukaemia (204) { F } Other lymphatic and M M } foreight store and M A foreight store and M M M M M M M M M M M M M M M M M M M	2,312 1,890 369 258 759 116 3 370 169 60 47 1,121	0·04 0·01 0·01 — — 0·00 — 0·00	0.05 0.09 	111 77 — — — — 55 42 56	6 64 47 — 0 — 28 21 35	109 57 1 1 4 1 - 2 2 27 12 76	362 443 41 27 96 25 0 116 67 27 27 25 198	3,672 2,609 558 243 1,671 200 5 642 286 74 56 1,364	39 11,231 6,113 1,893 977 3,658 390 17 1,029 512 194 117 5,468	78 17,205 10,748 3,074 2,031 2,493 458 27 1,643 644 312 164 11,300
B19	malignant neoplasms \ F (Remainder of 140-205)	929	0.01	0.05	35	26 7	39	184	1,182	3,088	5,808
	Benign and unspecified M F F	34 38 47	0.03	0.03	12	8	10	17 22	59 60	92	154 101
B20	Diabetes mellitus $\left\{ \begin{array}{ll} M \\ F \end{array} \right\}$	91 26		0.00	3	3	7	10 8	45 73	229 395	550 682
B21	Anaemias\{\begin{align*}M \ F \end{align*}	50		0.01	2 4	. 2	3	6	16 29	118	399 537
B22 B23	Vascular lesions affecting M central nervous system F Nonmeningococcal M	1,411 1,854 12 7	0.02	0·03 0·02 0·18	4 5 19	5 3	15 13 3	79 80 4	1,098 1,063 10	6,894 5,985 23	21,372 20,342 22 12
B24	meningitis F M	4	0.07	0.08	21	3	3	2 4	3 5	10	12 6
B25	Chronic rheumatic heart M disease	128 225		0.01		5 3 1 3 5 3 2	6 25 25	89 132	3 249 373	459 564	7 549 798
				1					1		

^{*} Live birth occurrences.

Abbrevi-	Cause of death	All ages	Under 4 weeks	weeks and under 1 year	1-	5-	15-	25-	45-	65-	75 and over
List Nos.		Rates per million living	Rates 1,000 occurr	birth			Rates	per mil	lion livin	g	
B26 {	Arteriosclerotic heart dis- M ease, including coron- F ary disease (420)	2,208 1,226	_	0.00	_	-0	3 0	221 28	3,240 805	11,555 5,201	18,972 10,989
	Degenerative heart { M disease (421, 422) { F	1,123 1,490	_	_	1 2	2	5	21 11	354 235 200	4,042 2,900	24,619 23,034 2,994
B27	Other diseases of heart. $\begin{cases} M \\ F \end{cases}$	219 222	0.00	0.00	4	3	8	21 14	200 120	2,900 1,062 716	2,994 2,433
B28	Hypertension with heart M disease	248 297	-	-	-		1	. 19	218	1,388	3,251
B29	Hypertension without SM mention of heart F	158		_	_	·-,	0 3	22	153 170 97	1,085 782	3,186 1,883
B46	Other circulatory diseases M	163 326	0.00	0.01	1	1	6	10 18 22	194	542 1,364	1,732 5,901
(Pt.) B30	(450–468) F Influenza	364 164	0.01	0.01	40	30	46	22 40	138 229	860 734	4,847 1,062
B31	7	136 537	0.01	0.09	28 141	42 26	53	44 50	122 423	391 2,159	849 7,138
	Friedmonia F	481 876	0.03	1·84 0·42	153 39	26 27 5	26	45 38	423 226 1,102	1,180 4,863	5,199 8,503
B32 B46	Bronemus] F	343	0.05	0.30	34	6	5	21 31	201 258	1,104	3,547
(Pt.)	Other diseases of respiratory system { M	161 61	0.03	0.09	21 19	9	10	31 17	258 53	780 144	1,024 501
В33	(470–475, 510–527) Ulcer of stomach and M duodenum	165 63	0.00	0.01	-,	1 0	4 2	25	223 45	819 217	1,549 596
B34	Appendicitis ${M \choose F}$	23	0.00	0.00	10	8 5	9	9	29	90	129
B35	Intestinal obstruction and \(\) M	67	0.22	0.09	15	2	3	6	13 59	38	.73 751
B36	hernia Gastritis, enteritis and M diarrhoea, except diar-	63 42 56	0.09	0·08 0·46 0·33	34 23	3 3	3 8	12 12	47 43 41	218 127 151	550 289 419
B37	rhoea of newborn Cirrhosis of liver	31	Secure	0.02	1	1	1	12	58	126	122
B38	Nephritis and nephrosis $\begin{cases} M \\ F \end{cases}$	23 108 87		$\begin{array}{c} 0 \cdot 01 \\ 0 \cdot 02 \\ 0 \cdot 02 \end{array}$	7 7	13 8	40 27	62 38	39 145 96	89 338 246	62 791 500
B39 B40	Hyperplasia of prostate M Complications of preg- nancy, childbirth and	168 15	-	-		-0	22	43	44 2	694	3,613 1
B41	puerperium Congenital malformations M F	120 101	2·96 2·70	1·76 1·83	131 119	32 25	27 19	25 22	39 38	48 31	43 28
B42	Birth injuries, postnatal M asphyxia and atelectasis F	132 79	7·59 5·13	0.08	2		<u> </u>				
B43 {	Diarrhoea of newborn M (764)	1 21 13	0·06 0·04 1·22	0.01		-		_	=	=	=
B44	born (763, 765-768) \ F Other diseases of early \ M infancy and immaturity \ F unqualified	106 71	0·87 6·04 4·67	0·02 0·08 0·05	4 2	_			_		
B45	Senility without mention of psychosis, ill-defined F F	125 206	0·05 0·03	0·04 0·01	1 2	_1	1	2	4 5	109	3,665 3,858
B46	All other diseases (Re- 5 M	363	0.15	0.49	104	47	76	108	436	1,446	3,052
(Rem.) BE47	mainder 001-795) F Motor vehicle accidents	463 170	0.14	0·39 0·01	99 78	37 71	59 315	131 146	466 142	1,429	3,104 604
BE48	World veinere accidents	53 268	0.12	0.01	55 147	31 87	44 184	23 172	47 254	117 511	222 2,036
BE49	All other accidents { F Suicide and self-inflicted M	268 224 146	0.16	0.46	107	27	21 43	32	94 270	407 404	2,627 475
BE50	injury \[F]	92	0.00		_	0	21	64	177	230	136
	Homicide and operations M of war F	10	0.02	0.03	12	5	3	5 5	16	19 7	12
BN47	Fractures, head injuries { M and internal injuries { F	318 195	0.01	0.05	103 72 21	92 37	383 48	239	302 75 9	596 371	2,080 2,341
BN48	Burns $\left\{ \begin{smallmatrix} M \\ F \end{smallmatrix} \right]$	13 17	_	0.01	21 34	2 8	10	8	9	21 38	108 127
BN49	Effects of poisons	116 103	0.00	0.02	21	5 5	37 22 118	92 58	194 172	297 240	479 341
BN50	All other injuries $\left\{ \begin{array}{l} F \\ M \\ F \end{array} \right\}$	147	0·13 0·16	0·54 0·41	88 50	63	118	99	178 63	282 113	458 181

The five chief causes of death in each sex-age group and the death rate per million living were as follows:

Age 1-4: males ... Malignant neoplasms, 111; pneumonia, 141; congenital malformations, 131; motor vehicle accidents, 78; all other accidents, 147.

females .. Malignant neoplasms, 77; pneumonia, 153; congenital malformations, 119; motor vehicle accidents, 55; all other accidents, 107.

Age 5-14: males .. Malignant neoplasms, 64; influenza, 30; motor vehicle accidents, 71; all other accidents, 87; congenital malformations, 32.

females .. Malignant neoplasms, 47; influenza, 42; motor vehicle accidents, 31; all other accidents, 27; pneumonia, 27.

Age 15-24: males .. Malignant neoplasms, 109; influenza, 46; motor vehicle accidents, 315; all other accidents, 184; suicide, 43.

females .. Malignant neoplasms, 57; influenza, 53; motor vehicle accidents, 44; nephritis and nephrosis, 27; pneumonia, 26.

Age 25-44: males .. Malignant neoplasms, 362; suicide, 114; arteriosclerotic heart disease, including coronary disease, 221; motor vehicle accidents, 146; all other accidents, 172.

females .. Malignant neoplasms, 443; suicide, 64; respiratory tuberculosis, 72; vascular lesions affecting the central nervous system, 80; chronic rheumatic heart disease, 132.

Age 45-64: males

Malignant neoplasms, 3,672; vascular lesions affecting the central nervous system, 1,098; arteriosclerotic heart disease, including coronary disease, 3,240; pneumonia, 423; bronchitis, 1,102.

females .. Malignant neoplasms, 2,609; vascular lesions affecting the central nervous system, 1,063; arteriosclerotic heart disease, including coronary disease, 805; chronic rheumatic heart disease, 373; degenerative heart disease, 235.

Age 65-74: males

Malignant neoplasms, 11,231; vascular lesions affecting the central nervous system, 6,894; arteriosclerotic heart disease, including coronary disease, 11,555; degenerative heart disease, 4,042; bronchitis, 4,863.

females .. Malignant neoplasms, 6,113; vascular lesions affecting the central nervous system, 5,985; arteriosclerotic heart disease, including coronary disease, 5,201; degenerative heart disease, 2,900; pneumonia, 1,180.

Age 75 and over:

males .. Malignant neoplasms, 17,205; vascular lesions affecting the central nervous system, 21,372; arteriosclerotic heart disease, including coronary disease, 18,972; degenerative heart disease, 24,619; bronchitis, 8,503.

females .. Malignant neoplasms, 10,748; vascular lesions affecting the central nervous system, 20,342; arteriosclerotic heart disease, including coronary disease, 10,989; degenerative heart disease, 23,034; pneumonia, 5,199.

Death rates by sex and age in different parts of England and Wales

Table XLII (page 68) gives the death rates per 1,000 living by sex and age in standard regions and urban and rural aggregates within regional groups for 1957.

In 1957, as in 1956, the crude death rates in the conurbations were highest for both males and females in the West Yorkshire conurbation: $14\cdot0$ and $12\cdot4$ per 1,000 living respectively. The highest crude death rates in the regional groups were $14\cdot1$ for males and $12\cdot5$ for females in Wales II; the lowest rates were $11\cdot2$ for males in the Eastern and Southern regions and $9\cdot67$ for females in the Midland region.

In the areas outside the conurbations, namely, urban areas with populations of 100,000 and over, of 50,000 and under 100,000, and of under 50,000, and rural districts, the highest rates for both males and females aged 65 and over occurred in the North of England and in Wales.

Percentage of deaths by cause in which a post-mortem was performed or there was record of an operation

Table XLIII (page 70) shows the number of deaths in which a post-mortem was performed or there was a record of an operation being performed, classified by sex, age, and cause of death, and expressed as a percentage of all deaths from the same cause in the corresponding sex-age group. The table therefore gives some indication of the extent to which any cause of death may be said to have been confirmed.

For all causes of death 23 per cent had one of these procedures mentioned on the death certificate, 27 per cent for males and 20 per cent for females. A high percentage of certificates mentioning either an operation or a post-mortem occurred, for males, in deaths from meningococcal infections, 67; ulcer of stomach and duodenum, 63; and for females, maternal causes, 75; meningococcal infections, 71.

Table XLII. All causes: Death rates per 1,000 living, by sex and age, in standard regions and urban and rural aggregates within regional groups, 1957, England and Wales

			Males	50					Females	es		
	All	9	5-	15-	45-	65 and over	All	9	3	15-	45-	65 and over
AND WALES	12.3	6.44	0.46	1.60	13.7	19.9	10.7	5.11	0.32	1.13	7.59	57.3
	12.3	6.24	0.42	1.65	14.6	83.4	10.5	5.05	0.29	1.14	7.78	58.2
ions of 100,000 and over	12.6 12.8 11.5	6.61 6.81 6.57 6.41	0.48 0.39 0.49 0.52	1.60 1.61 1.55 1.56	14.8 13.7 13.3	83.0 80.7 79.2 73.6	10.7 11.0 11.0	5.04 5.28 5.04	0.35 0.32 0.36	1.118	7.84 7.57 7.47 7.16	58.1 56.3 56.8
:::	12.6 12.9 13.7	7.55 6.87 7.48	0.46 0.51 0.48	1.91	14·8 14·7 16·0	81.8 83.2 88.2	10.6 10.9 11.8	5.88 5.86 5.60	0.42 0.39 0.31	1.27	8.28 8.30 8.51	62:3 60:1 64:3
la	13.2	7.32	0.49	1.78	15.3	85.1	11.3	2.66	0.36	1.27	8.40	62.6
::::	13.0 13.7 12.7	7.19 6.32 7.45 7.06	0.39 0.58 0.49 0.39	1.95 1.76 1.79 1.74	16·1 15·8 16·2 17·2	85.3 88.5 89.7 91.0	10.5 10.5 10.5	5.31 5.67 5.93	0.31 0.31 0.28	1.26 1.26 1.27 1.41	8.42 8.97 8.74 8.48	63.0 63.5 65.4 62.3
Total	13.5	7.04	0.47	1.79	16.3	0.68	11.6	5.71	0.30	1.30	8.72	63.9
reas outside conurbations: Urban areas with populations of 100,000 and over Urban areas with populations of 50,000 and under 100,000 Urban areas with populations under 50,000.	13.2 13.6 11.6	7.43 8.21 7.39 7.53	0.48 0.40 0.51 0.54	1.72 1.70 1.82 1.77	16.3 15.3 12.5	84.8 86.1 83.7 76.0	10.6 11.5 10.5	5.50 6.12 5.40 5.73	0.46 0.41 0.37 0.41	1.20 1.43 1.19 1.25	8.20 8.43 8.21 7.67	59.6 62.1 63.5 60.5
:::	111.5	6.20 6.68 5.71	0.51 0.36 0.45	1.58	12.4	75.5 80.4 72.6	9.86 9.67 10.2	5·12 5·38 4·46	0.33 0.33 0.31	1.13 1.09 0.97	7.27 7.61 6.86	55.6 57.7 53.3
Total	11.4	6.24	0.43	1.58	12.8	76.3	68.6	5.03	0.32	1.07	7.28	55.6

58.9	57.3 55.2 53.4 55.0	53.9		52.8 52.9 56.5	54.1	56.2 52.8 53.1 54.8		63.0	62.5 66.9 61.8
7.70	7.75 7.25 6.81 7.08	7.08		6.97 6.52 7.26	6.93	7.36 6.96 7.08 6.55		8.32	8.31 8.36 8.59
1.08	1.07	1.04		1.05 0.99 1.01	1.02	1.06 1.05 1.00 0.99		1.26	1.22 1.51 1.28 1.18
0.35	0.31 0.27 0.27 0.38	0.27		0.35 0.24 0.32	0.31	0.32 0.31 0.30 0.29		0.35	0.25 0.44 0.33 0.43
5.28	5.02 4.67 5.12 4.86	4.38		4.49 4.85	4.64	4.50 4.32 4.82 4.67		6.29	5.12 11.7 6.60 5.55
9.55	10·2 9·41 9·93 10·1	10.0		12.0 10.4 11.6	11.3	11.5		10.7	10.6 111.9 111.5
84.1	79.9 76.9 75.3 71.2	79.0		76·6 74·3 77·2	76.1	82·1 79·3 76·1 72·5		87.4	90.0 81.2 86.4 81.6
15-1	13.8 13.2 12.0 11.1	13.3		12·1 12·0 12·3	12.2	13.9 12.5 10.9		15.5	15.9 16.1 13.9
1.85	1.60 1.62 1.44 1.49	1.49		1.33	1.43	1.44		1.69	1.65 2.59 1.62 1.71
0.35	0.42 0.42 0.46 0.48	0.40		0.51 0.52 0.44	0.49	0.49 0.35 0.52 0.51		0.60	0.63 0.64 0.48 0.63
6.49	6.26 6.26 6.41 6.07	5.46		5.50 5.81 5.76	5.70	5.81 5.94 5.41 5.82		8.48	8.02 7.50 7.89 7.40
11.6	7.111 7.111 0.	11.7		13.3	12.3	12.7 12.9 12.7 11.5		13.8	13.6 15.2 14.2 13.4
Conurbation: West Midlands	Areas outside conurbation: Urban areas with populations of 100,000 and over Urban areas with populations of 50,000 and under 100,000 Urban areas with populations under 50,000. Rural districts	GREATER LONDON	SOUTH OF ENGLAND	Regions: London and South Eastern (excluding Greater London) South Western	Total	Urban areas with populations of 100,000 and over Urban areas with populations of 50,000 and under 100,000 Urban areas with populations under 50,000	WALES (including Monmouthshire)	Regions: Wales I (South East)	Urban areas with populations of 100,000 and over Urban areas with population of 50,000 and under 100,000 Rural districts

Table XLIII. Deaths from certain causes: (a) by sex and age; (b) distinguishing deaths in which a post-mortem was performed or there was a record of operation, and (c) the percentage to all deaths, 1957, England and Wales

	1				1,292 715 55	33.26	273	184 127 69	227 95 42	388
	65 and over	183,255 26,980 15	285 64 22	100 58 58	276 168 61	201	1	7 4 4 57	- 11	111
	45-	45,657 13,673 30	327 80 24	98	121 61 50	-	111	63.58	4400	1
Females	15-	10,177	479 103 22	68 39 57	16 7 44	- 11	111	60	\$5 27 40	111
	-0	9,374 4,381 47	88.78	49 49			24 33 33	70 52 74	23 13 57	40 14 35
	All ages	248,463 49,179 20	1,099 254 23	271 156 58	413 236 57	412	18 33	90 64 71	84 37 44	141 34 45
	65 and over	165,386 31,974 19	1,139	23,83	504 277 55		111	4700		111
	45-	74,121 25,943 35	1,534 487 32	90 53 59	333 175 53		111	N. 60	64	
Males	15-	14,268 6,940 49	469 163 35	83 45 54	41 26 63			279	39	4
	-0	12,632 6,268 50	∞ m ∞	38 16 42	100	20	28 6 73	89 89 89 89	132	824
	All ages	266,407 71,125	3,150 976 31	264 142 54	879 479 54	50	33	94 63	143 58 41	224
		<u>6</u> 66	<u>6</u> 60	<u> </u>	<u> </u>	<u> </u>	<u> </u>	<u> </u>	<i>3</i> 33	<u> </u>
		:	:	:	:	:	:	:	:	:
		:	:	:	:	:	:	:	:	:
death	Nos.)	ses	:	:	:	:	:	:	:	:
use of	(and I.S.C. Nos.)	All causes	, rz	:	:	:	:	su	:	:
Cai	(anc		Tuberculosis, respiratory (001–008)	Tuberculosis, other (010-019)	Syphilitic disease (020–029)	Diphtheria (055)	Whooping cough (056)	Meningococcal infections (057)	Acute poliomyelitis (080)	Measles (085)

1,056 491 46	13,995 2,388 17	19,119 4,098 21	8,683 1,785	3,939 608 15	45,887 10,354 23	2,394 557 23	3,137 621 20	73,669 7,887 11	76,324 25,113 33	12,282 1,565 1,13
185 53 29	4,374 574 13	1,327 288 22	4,018 694 17	1,792 243 14	13,097 2,636 20	431 95 22	1,602 232 14	36,169 2,484	23,493 5,806 25	5,962 506 8
168 68 40	1,463 258 18	1,204	3,862 910 24	1,722 309 18	7,107 1,748 25	335 85 25	440 122 28	6,396 1,590 25	4,843 1,628 34	920
83 22 28 28	172 34 20	158 34 22	732 167 23	425 56 13	1,259	189 422 22	67 29 43	537 272 51	177 97 55	32 16 50
88 58 65		111	100		155 59 38	138 31 22	15 10 67	30 23 77	1002	111
231 44	6,009	2,689 611 23	8,613 1,772 21	3,939 608 15	21,618 4,765 22	1,093 253 23	2,124 393 19	43,132 4,369 10	28,515 7,533 26	6,914 721 10
121 30 25	4,715 813 17	6,787 1,375 20	42 6		15,249 3,129 21	481 105 22	690 113 16	24,029 1,652	28,918 8,797 30	4,128 502 12
181 84 46	3,017 665 22	9,039 1,973	27 26 26	111	7,375 1,956 27	398 103 26	241 71 29	5,936 1,535 26	17,524 7,845 45	1,181
104	254 44 17	602 139 23	- 11	111	1,429 424 30	244 544 22	71 37 52	529 297 56	1,367 938 69	25 27 46
119 80 67	111	7	111	111	216 80 37	178 42 24	111	43 34 79	111	111
525 260 50	7,986 1,522 19	16,430 3,487 21	70	111	24,269 5,589 2,33	1,301 304 23	1,013 228 23	30,537 3,518 12	47,809 17,580 37	5,368 844 16
<u> </u>	<u>මෙම</u>	<u> </u>	<u> </u>	<u> </u>	<u> </u>	<u> </u>	<u> </u>	<u> </u>	<u> </u>	<u> </u>
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86-138)	:	:	:	:	asms -203, 2	:	:	ous sys	:	:
es 1, 086-	:	:	:	:	neopl 5, 175-	:	:	1 nerve	:	
disease 81–084	:	:	:	:	phatic 64, 165	:	:	centra		disease
asitic 074, 0			:	:	161, 1		:	ecting	angina	heart
ve, par	coplasi	chus (f			lant an	leukae		ons aff	case, a	with
Other infective, parasitic diseases (030–054, 058–074, 081–084, 0	Malignant neoplasm: Stomach (151)	Lung, bronchus (162, 163)	reast	Uterus (171–174)	malign 40–150	kaemia, a (204)	. (09	Vascular lesions affecting central nervous system (330–334)	onary dis (420)	(440 443)
Other (0	Malign Ston (1	Lun	Breast (170	Uter (1	Other malignant and lymphatic neoplasms (140–150, 132–161, 164, 165, 175–203, 205)	Leukaemia, aleukaemia (204)	Diabetes (260)	Vascul (3	Coronary disease, angina (420)	Hypertension with heart disease (440–443)

Table XLIII-continued

Persons	All ages	77,094 6,781	22,756 5,990 26	6,716 1,206 18	23,518 6,563 28	26,935 4,079 15	4,904 2,057 42	5,029 3,067 61	2,252 1,141 51	4,359 992 23
	65 and over	39,574 2,162 5	10,625 2,244 21	1,794 110 6	8,542 1,294 15	6,428 646 10	884 203 23	1,143 590 52	800 334 42	1,088 188 17
	45-	4,380 962 22	1,412 666 47	732 171 23	1,359 530 39	1,210 297 25	316 111 35	269 193 72	245 149 61	575 161 28
Females	15-	1,075 388 36	222 110 50	424 169 40	352 189 54	146 69 47	125 61 49	39 85	101 65 64	310 80 26
	-0	27 14 52	1000	213 91 43	1,220 703 58	118	6.58	67	169 87 51	12 29 29
	All ages	45,056 3,526 8	12,266 3,027 25	3,163 541 17	11,473 2,716 24	7,973 1,130 14	1,410 433 31	1,461 824 56	1,315 635 48	2,014
	65 and over	26,747 1,682 6	8,241 1,870 23	1,740 155 9	7,825 1,700 22	12,520 1,485 12	1,779	2,188 1,229 56	372 186 50	1,005
	45-	4,345 1,166 27	1,972 948 48	1,240 256 21	2,290 988 43	5,957 1,204 20	1,394 731 52	1,208 887 73	234 150 64	785 204 26
Males	15-	909 384 42	269 139 52	372 163 44	401 195 49	248 93 38	217 102 47	167 123 74	84 57 68	490 146 30
	-0	37 62	8 6 75	201 91 45	1,529 964 63	237 167 70	104 822 73	84.5	247 113 46	34 32
	All ages	32,038 3,255 10	10,490 2,963 28	3,553 665 19	12,045 3,847 32	18,962 2,949 16	3,494 1,624 46	3,568 2,243 63	937 506 54	2,345 551 23
		ତ୍ରତ	<u> </u>	ତ୍ତିତ	<u> </u>	<u> </u>	<u> </u>	<u> </u>	<u>@</u> @@	<u> </u>
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		:	:	:	:	:	:	:	:	:
ath	Nos.)	*	:	:	:	:	/stem	E	St.	:
Cause of death	(and I.S.C. Nos.)	:		:	:	:	tory sy	noqeun	iarrhoe	:
Caus	(and	434)	disease	:	:.	:	respira 0-527)	and di	2, 764)	hrosis
		diseas 16, 421	latory 68)	83)	93, 763	02)	ises of 75, 510	omach 41)	nteritis	nd nep 94)
		Other heart disease (410-416, 421-434)	Other circulatory disease (444-468)	Influenza (480–483)	Pneumonia (490–493, 763)	Bronchitis (500–502)	Other diseases of respiratory system (470–475, 510–527)	Ulcer of stomach and duodenum (540, 541)	Gastritis, enteritis and diarrhoea (543, 571, 572, 764)	Nephritis and nephrosis (590–594)

3,645 1,599 44	349 263 75	4,930 2,354 48	43,661 14,065 32	4,898 2,911 59	11,000 5,769 5,5	5,316 3,224 61	347 246 71
111	3	95 51 54	14,077 2,919 21	499 315 63	3,936 1,621 41	624 378 61	2268
111	12 8 67	229 97 42	4,006 1,682 42	281 182 65	566 385 68	1,063	20 16 80
	333 254 76	190 110 58	1,367 645 47	268 160 60	256 172 67	458 305 67	24 62
	100	1,827	4,256 1,823 43	177 76 43	445 275 62	100	45 31 69
111	349 263 75	2,341 1,031 44	23,705 7,069 30	1,225 733 60	5,203 2,453 47	2,146 1,355 63	129 100 78
3,404		96 58 58	8,830 2,093 24	774 481 62	2,086 1,064 51	884 496 56	34 17 50
240 166 69	111	213 105 49	3,662 1,535 42	769 501 65	1,373 895 65	1,460 869 60	600
1001	111	230 152 66	1,304 640 49	1,771	1,568 869 55	823 503 61	52 35 67
111	111	2,050 1,010 49	6,160 2,728 44	359 159 44	770 488 63	33.13	43 79
3,645		2,589 1,323 51	19,956 6,996 35	3,673 2,178 59	5,797 3,316 57	3,170 1,869 59	218 146 67
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Hyperplasia of prostate (610)	Pregnancy, childbirth, abortion (640–689)	Congenital malformations (750-759)	Other defined and ill-defined diseases (210-254, 270-326, 340-402, 530-539, 544-570, 573-587, 600-609, 611-637, 749, 760-762, 765-795)	Motor vehicle accidents (E810-835)	All other accidents (E800-802, 840-962)	Suicide (E963, 970–979)	Homicide and operations of war (E964, 965, 980-999)
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INFANT MORTALITY

Live births and stillbirths (of 28 weeks' gestation or more) together amounted to 739,996 in 1957. The number of live births was 723,381 and the number of stillbirths 16,615; the number of children who died during the first year of life was 16,720. The infant mortality rate was 23.1 and the early neonatal rate (deaths in the first week) 14.1 per thousand live births; the stillbirth rate was 22.5 per thousand total birth occurrences. Both the infant mortality and the neonatal rate are the lowest yet recorded in England and Wales, as is shown in Table XLIV (page 76). More than 60 per cent of the infant mortality occurred in the first week of life, compared with just under 40 per cent in 1947 when the infant mortality rate was 41.4 and the early neonatal mortality rate 16.5. late neonatal rate (deaths at one to four weeks) fell in the same period from 6.2 to 2.4, the post-neonatal mortality rate (deaths at four weeks and under one year) from 18.6 to 6.7, and the stillbirth rate from 24.1 to 22.5. The recent trends of these rates are set out in Table XLV (page 78) which also shows the corresponding rates among illegitimate infants. In each instance the rate among the illegitimate children is higher than the rate for all children, the early neonatal rate in 1957 being some 40 per cent higher, the late neonatal rate 21 per cent and the post-neonatal rate 9 per cent higher. In 1947 the illegitimate early neonatal rate bore approximately the same relation to the current all infants figure as in 1957 but the late neonatal rate was 60 per cent higher and the postneonatal rate 33 per cent higher. The stillbirth rate among illegitimate children was 28.7 per 1,000 total births in 1957, and 30.6 in 1947, in both years the illegitimate rate being about 27 per cent higher than the all infants rate.

The sex ratio of male to female infant mortality was 1.27 to 1, which was somewhat lower than that in recent years. The stillbirth sex ratio was particularly low, being the lowest recorded during the last 20 years. The next lowest

			1951	1952	1953	1954	1955	1956	1957
Total infant mortality Congenital malformations Other prenatal causes Other postnatal causes			1·31 1·09 1·42 1·27	1·28 1·03 1·38 1·27	1 · 26 1 · 01 1 · 35 1 · 27	M/F rat 1·31 1·02 1·42 1·33	io 1·31 1·07 1·37 1·36	1·32 1·06 1·38 1·40	1 · 27 1 · 04 1 · 39 1 · 24
Stillbirths	• •	• •	1.11	1.09	1.06	1.33	1.36	1.40	1.24

was of infants who died as a result of a congenital malformation. About twothirds of persons of all ages who die from a cause assigned to congenital malformations (I.S.C. Nos. 750–759) die during the first year of life, but such conditions as monstrosity, spina bifida and meningocele, cleft palate, congenital pyloric stenosis, and imperforate anus, if they cause death at all do so in infancy. The sex ratio in these conditions shows some interesting variations. For the

years 1953-57 the average ratio of male to female infant mortality is given below with the infant mortality per thousand live births.

		 	M/F ratio	Infant mortality rate
Monstrosity Spina bifida and meningocele Cleft palate	ito-urin	 tem	0·57:1 0·69:1 1·00:1 5·00:1 2·67:1 1·55:1 1·26:1 1·67:1 3·33:1 1·00:1	0·18 1·34 0·03 0·06 0·05 0·40 1·68 0·04 0·13 0·05 0·20

Considering first the sex ratio, and comparing it with that for total infant mortality for the same period of about 1.3 to 1, there is seen to be a large female excess for two conditions, monstrosity and spina bifida and meningocele and a large male excess for congenital pyloric stenosis, imperforate anus and other malformations of the genito-urinary system. In the remaining conditions the sex mortality ratio does not deviate markedly from that for the total infant mortality.

Recent morbidity surveys, notably that by Grundy and Lewis-Faning*, show that the incidence of these conditions per thousand live births is much higher than the infant mortality as given above. Such conditions as hypertrophic pyloric stenosis and imperforate anus, though rapidly lethal if untreated, are amenable to surgery, while many of the remaining conditions are not incompatible with life. For example, the incidence of cleft palate was found to be 1.5 per thousand live births and that of congenital abnormalities of bones and joints 6.6 per thousand. In the former case surgical intervention probably prevented many deaths, while in the latter many of the malformations were not in themselves lethal. The recent history of mortality from congenital pyloric stenosis suggests the part that treatment can play in its control. In the survey cited above the incidence of this condition was three per thousand live births with a sex ratio of nearly 4 to 1. The national infant mortality rates in 1937, 1947, and 1957 were:

		1937	1947	1957
Male Female M/F Sex ratio	• •	1·04 0·33 3·2	0·58 0·17 3·4	0·070 0·020 3·5

At present three conditions, monstrosity, spina bifida, and malformations of the circulatory system, account for about four-fifths of the mortality due to congenital malformations, and in the light of present medical knowledge it would appear that little can be done to improve mortality under the first two heads, though recent improvements in cardiac surgery hold out hope for progress in malformations of the heart and great vessels.

^{*} Morbidity and Mortality in the first year of life. The Eugenics Society, 1957.

Table XLIV. Long term trend of stillbirths per 1,000 total births, 1928 to 1957, and of deaths in the neonatal, post-neonatal and other age periods under 1 year per 1,000 live births, 1906-1950, and 1928 to 1957, England and Wales

tal births†	Stillbirths	plus infant deaths under 4 weeks		1111	69.9 71.6 70.4	71.5 71.6 70.5 69.9	68.7 65.5 65.3 65.7	59.4 54.6 51.1 51.8
Stillbirths and infant deaths—rates per 1,000 total births!	Infant deaths at	1 week and over "infantile mortality"	11111	1111	41.7 50.0 36.4	424 40.8 339.1 33.5 5.5	3.3.2.2 3.4.2.2.2 3.4.4.7.7.7.7.7.7.7.7.7.7.7.7.7.7.7.7.7.	37.7 29.0 29.6 26.3 28.1
eaths—rates	Stillbirths plus infant	deaths under 1 week "perinatal mortality"	11111	1111	60.8 61.9 61.9	62.1 62.8 63.4 61.9	60.8 58.6 57.7	5.25 47.9 5.25 5.25 5.25
and infant d	Stillbirths	deaths, at or over 28 weeks, gestation)	1111	1111	40.1 40.0 40.8	40.9 41.3 40.5 40.5 7	39.7 38.3 38.1 37.2	34.8 33.2 30.1 27.6 27.6
Stillbirths	Stillbirths plus infant	deaths under 1 year "birth	11111	.1111	102.6 111.4 98.3	104.5 103.7 102.5 96.7 95.4	959 949 949 950 950 950	92.4 81.1 77.5 70.9 73.4
	riod	6 months and under 1 year	32.1 30.0 22.8 17.5 15.4	12.1 4.7 4.4	14.2 19.0 11.7	41 2.2.2.2. 8.	10.9 10.3 7.3 9.7	10.17.2
	Post-neonatal period	3 months and under 6 months	22.0 19.6 14.6 11.3	8.7.7.8 5.0	9.3 7.9	2000	847788	7.8
rious ages	Post	4 weeks and under 3 months	22.8 20.2 16.5 10.8	9 % % A \$ & \$ & \$ & \$ & \$ & \$ & \$ & \$ & \$ & \$ &	10.7	10.8 10.8 9.8 8.9 9.1	6.60 6.45 6.60 6.60 6.60 6.60 6.60 6.60 6.60 6.6	8.8 8.0 8.2
Infant mortality per 1,000 live births* at various ages	Early neonatal period	1 day and under 1 week	13.0 12.7 111.3 111.5	111.7 9.5 8.4	11.5		11.2 10.8 10.9 11.5	10.6 10.0 9.2 9.8 9.0
,000 live bi	Early n	Under 1 day	11.5 10.4 10.3 10.3	10.7 10.4 9.3 7.9	01 4.00 4.4.4	10.4 10.6 11.0 10.9	10.7 10.8 10.3 9.8	10.1 9.6 9.8 9.0
tality per 1	Post-	mortality (4 weeks and under 1 year)	76.9 69.8 53.9 41.6 35.7	30.5 26.0 23.8 15.2	34·2 41·1 29·3	34.2 33.0 30.6 27.9 26.6	28.0 22.2.2 27.2.2	31.1 23.4 21.1 21.3
Infant mor	Late	(1 week and under 4 weeks)	15.7 113.7 111.7 9.9	0.7.7.4	9.5	000000 000000 000000	%.7.7.8 3.1.1.8 3.1.1.8	8.50 8.60 8.60 8.60 8.60
	Early	E H - M	24.5 23.4 21.7 21.7 8	22.4 21.5 18.7 16.2	21.6 22.2 22.0	22222 2229 229 200 200	22.0 22.0 21.2 21.3 21.3	20.7 19.6 18.3 17.5
		neonatal mortality (under 4 weeks)	40.2 39.0 33.4 31.8	31.4 29.2 26.0 21.1	31·1 32·8 30·9	31.5 32.1 31.4 30.4	30.2 28.3 28.3 29.6	29.0 27.2 24.4 24.8
	Total	mortality (under 1 year)	117·1 108·7 90·9 74·9 67·6	61.9 49.8 36.3	65.3 73.9 60.2	65.7 64.5 59.3 57.0	58 57.7 50.6 86.8	60.0 50.6 49.1 46.0
		Period	1906-1910 1911-1915 1916-1920 1921-1925 1926-1930	1931–1935 1936–1940 1941–1945 1946–1950	1928 1929 1930	1931 1933 1933 1934	1936 1937 1938 1939	1941 1942 1943 1944 1944

50.7 4.6.4 42.5 40.7 40.7	41.5 40.6 40.8 40.0	38.5
22.6 24.6 18.4 16.7	14.0 1.7.1 10.3 0.0	8.8
38.5.0 3.0.0 3.0.0 4.0.0 4.0.0 4.0.0	38.3 37.5 38.1 37.4	36.2
22234 22234 22255 64255	22222 22225 2324 245 254 254 254 254 254 254 2554 25	22.9
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18: 13:00: 13:00: 13:00:	10.9 9.3 7.7 7.6	6.9
	<u> </u>	2.6
17.8 15.6 15.6 15.0	\$12.5 \$4.4 \$6.5 \$6.5 \$6.5 \$6.5 \$6.5 \$6.5 \$6.5 \$6.5	14.2
24.5 199.7 189.3 189.3	18.8 17.7 17.7	16·8 16·5
2333 2333 246,49	27.5 27.5 27.5 27.5 27.5 27.5 27.5	23.7
946 948 950	951 952 953 954	956 957

+ The births upon which these rates are based for successive calendar years are numbers registered up to 1938 inclusive, and numbers of occurrences from 1939. * Rates based on related live births from 1926 to 1956.

Table XLV. Stillbirths per 1,000 total births, and deaths in the early neonatal, late neonatal, and post-neonatal periods per 1,000 live births*, distinguishing illegitimacy, 1936–39, 1940–44, and 1945 to 1957, England and Wales

	Stillbirths (Late foetal deaths at	Early neonatal deaths (Under 1 week)	infants Late neonatal deaths (1 week and under 4	Post-neonatal deaths (4 weeks and under 1	Stillbirths (late foetal deaths at	Early neonatal (under 1 week)	infants Late neonatal (1 week and under 4	Post-neonatal (4 weeks and under
	or over 28 weeks)	::	weeks)		or over 28 weeks)	::	weeks)	1 year)
	Annual rate per cent of 1936-39	Annual rate per cent of 1936-39	Annual rate per cent of 1936–39	Annual rate per cent of 1936-39	Annual rate per cent of 1936–39	Annual rate per cent of 1936–39	Annual rate per cent of 1936-39	. Annual rate
1936 to 1939	38.8	21.6	7.6	25.8	49.6	34.4	10.9	41.6
1940 to 1944	32.3	19.3	7.5	25.1	39.9	28.1	10.7	35.8
1945	27.6	18.0	8.9	21.3	31.5	24.3	10.0	30.5
1946	27.2	17.8	6.7	18.4	33.2	23.7	9.6	26.9
1947	24.1	16.5	6.2	18.6	30.6	23.5	6.6	24.7
1948	23.2	15.6	4.1	14.2	31.6	22.0	5.5	17.9
1949	22.7	15.6	3.7	13.0	29.5	24.9	44	15.1
1950	22.6	15.2	3.3	11.1	29.1	21.4	4.5	13.6
1951	23.0	15.5	3.3	10.9	31.6	21.4	4.3	12.8
1952	22.7	15.2	3.2	9.3	29.7	21.3	- 3.9	9.8
1953	22.4	14.8	2.9	9.2	29.8	19.3	3.2	10.6
1954	23.5	14.9	2.8	7.7	29.2	20.2	3.5	8.3
1955	23.2	14.6	2.6	7.6	28.8	20.8	3.1	7.8
1956	22.9	14.2	2.6	6.9	29.0	18.9	2.7	7.1
1957	22.5	14.1	2.4	6.7	28.7	19.8	2.9	7.3

* Rates prior to 1957 per 1,000 related live births.

Congenital malformations apart, there has been a small fall in the remaining causes classified as mainly of prenatal and natal origin compared with 1956. The rate in 1957 was 11.90 infant deaths per thousand live births compared with 12.05 in 1956. Immaturity, whether mentioned alone or in association with some other condition, was responsible for more than one-third (38 per cent) of all infant mortality, and just over one-half (53 per cent) of neonatal mortality, the proportion of cases in which it was stated to be primary to another disease or mentioned alone, being about one-half the total cases with mention of immaturity. This is now the largest single group of causes of infant mortality and it seems probable that it is here that any further appreciable fall in mortality must be looked for.

Postnatal causes have fallen from 5.85 to 5.43 deaths per thousand live births, and of these pneumonia and bronchitis form nearly two-thirds (63 per cent), mortality here having fallen from 3.76 in 1956 to 3.41 in 1957.

Tables XLVI, XLVII, and XLVIII (pages 80–84) present an analysis of infant mortality in 1957 by aetiological groups and causes of death at various age periods in infancy, Table XLVI dealing with numbers and proportions of deaths in cause groups and age periods. Table XLVII gives separately for male and female infants the rates per thousand live births while Table XLVIII, which also includes stillbirths, shows the annual and quarterly rates and the quarterly rates as a percentage of the annual rates.

Tables XLIX-LI (pages 85-88) are concerned with regional differences in infant mortality in 1957, and Table LII (page 90) with the trend of stillbirth, neonatal and post-neonatal rates in the standard regions over the last five years.

Tables XLIX and L show that both infant mortality and stillbirths are highest in South East Wales and the Northern region and lowest in the South of England regions. The lowest infant mortality rate was recorded in the Eastern region and the lowest stillbirth rate and perinatal rate in the Southern region. Except in the Northern region there was comparatively little difference between the rates within and without the conurbations. The infant mortality within the Tyneside conurbation was appreciably lower than that in the rest of the region, the difference being proportionately the same in the neonatal and post-neonatal period.

The infant mortality in rural areas of England and Wales as a whole is lower than that in any type of urban area (Table L) but the rural mortality in the South of England is slightly higher than that for the whole of the South of England. This is due to the low infant mortality in Greater London which is lower than any urban or rural aggregate within the regional group. The infant mortality in regional groups is shown by the principal cause groups in Table LI. In general the mortality from individual causes varies among the regional groups, as does the mortality from all causes, which is high in the North of England and in Wales and low in the Midlands and Eastern, and South of England, but the mortality from postnatal asphyxia and atelectasis, which accounts for more than one-fifth of all neonatal mortality, is practically the same in the North as in the South of England, and slightly lower than in the Midlands and Eastern, while the mortality from birth injuries in the Midlands and Eastern is the highest recorded.

Table XLVI. Principal causes of death under 1 year, arranged in aetiological groups: (a) Age-group distribution per cent of all deaths assigned to each cause; (b) Cause distribution per 1,000 total deaths in each age-group, 1957, England and Wales

deaths	Post- neonatal	mortality (4 weeks and under 1 year)	1,000	270	20	٤n	1	2	4	9	I	1	I
otal infant	llity	Late (1 week and under 4 weeks)	1,000	425	217	80	60	11	51	42	٠,	16	0
ution per 1,000 too in each age-group	Neonatal mortality	Early (under 1 week)	1,000	129	800	289	11	12	266	133	39	33	16
Cause distribution per 1,000 total infant deaths in each age-group	Neor	Under 4 weeks	1,000	172	715	259	10	12	234	120	34	31	15
Cause d		Infant mortality (under 1 year)	1,000	200	515	186	7	6	168	87	25	22	11
deaths	Post-	mortality (4 weeks and under 1 year)	29	39	1		1	7	1	7	I	2	2
otal infant	lity	Late (Iweek and under 4 weeks)	10	22	4	4	4	12	8	3	2	7	∞
ution per cent of total assigned to each cause	Neonatal mortality	Early (under 1 week)	61	39	95	95	96	81	96	93	97	91	90
Age distribution per cent of total infant deaths assigned to each cause	Neon	Under 4 weeks	11	61	66	66	100	93	66	86	66	86	86
Age dist		Infant mortality (under 1 year)	100	100	100	100	100	100	100	100	100	100	100
	Number of infant	deaths (under 1 year)	16,720	3,348	8,608	3,108	114	153	2,809	1,455	414	371	184
	Cause of death	(and International Classification Numbers)	All causes	Congenital malformations (750-759)	Total causes mainly of prenatal and natal origin other than congenital malformations	Immaturity alone, or primary to diseases other than of early infancy (774, 776)	Attributed to maternal toxaemia (769)	Ill-defined diseases of early infancy (773)	Postnatal asphyxia and atelectasis (762)	Intracranial and spinal injury at birth (760)	Other birth injury (including maternal antepartum haemorrhage) (761)	Erythroblastosis (770)	Haemorrhagic disease of newborn (771)
	Aetiological	group					Prenatal and	(including	congenital malformations)				

869	59	359	76	18	19	6	7		7	34	00	29	10	12	113	41
303	20	197	69	I	2	co.	36		11	23	4	15	i	1	56	25
52	0	39	4	1	I	0	I		0		ŧ	I	7	0	19	~
88	m	62	14	0	1	I	9		0	8	I	60	9	I	25	2
235	19	148	38	10	9	3	7		7 0	13	9	22	*^	4	50	*C.
73	68	70	74	86	06	88	29		100	74	85	06	24	06	65	11
13	11	14	19	2	4	10	57		1,1	18	. 15	7	I	LJ	12	4
13	0	16	7	1	9		14		20	%	-1	03	76	9	24	19
27	11	30	26	2	OI	12	11		1 20	26	15	10	92	10	35	23
100	100	100	100	100	100	100	100		100	100	100	100	100	100	100	100
3,930	318	2,469	629	80	102	49	109		10	221	47	362	06	62	834	06
Total causes mainly of postnatal origin	Gastro-enteritis (including diarrhoea of newborn) (571, 764)	Pneumonia and bronchitis (490-493, 763, 500-502)	Causes classified as infective (001-138) and	Whooping cough, measles (056, 085)	Acute upper respiratory miscripus and minusing (470–475, 480–483)	pleuristy (391–393, 518, 519)	, sepsis	Tuberculosis other than tuberculous meningitis		Menugococcal infections and non-meningo- coccal meningitis (657, 340)	(remainder 001–138)	Accidental mechanical suffocation from vomit, food, foreign body, or in cot (E921-E925)	Lack of care, neglect (including foundlings), infanticide (E926, E980-E985)	Other accidental causes (remainder E800-E999)	Total causes remaining	Neoplasms (140–239)
				Destrote	group											Juclassified

* I.S.C. Nos. 340, 391-393, 470-483, 518, 519, 690-698, 765-768.

Table XLVII. Principal causes of death under 1 year and in the neonatal, post-neonatal and other age periods, by sex, per 1,000 live births, 1957, England and Wales

	eriod	6 months and under 1 year	1.98	0.42	0.01	11	11	00.00	00.00	0.01	0.00	11	11
	Post-neonatal period	3 months and under 6 months	2.23	0.51	0.07	0.01	1 1	00.00	0.00	0.00	00.00	0.01	0.01
Se	Post-	4 weeks and under 3 months	2.87	0.83	0.10	0.04	11	0.01	0.01	0.03	0.01	00.00	0.00
various ag	y neonatal period	1 day and under 1 week	7.62	1.17	3.72	1.66	90.0	0.08	1.96	0.73	0.20	0.21	0.25
e births at	Early neonatal period	Under 1 day	8.54	97.0	7.46	2.99	0.00	0.11	2.44	1.07	0.46	0.27	0.03
Infant mortality per 1,000 live births at various ages	Post-	mortality (4 weeks and under 1 year)	7.08	1.76	0.14	0.04	11	0.01 0.01	0.02	0.03	00.00	00.00	0.01
mortality 1	Late	mortality (1 week and under 4 weeks)	2.51	1.03	0.52	0.16	00.00	0.03	0.13	0.10	0.02	0.04	0.07
Infant	Loriv	neonatal mortality (under 1 week)	16.17	1.93	13.10	3.44	0.15	0.19	3.03	2.28	0.66	0.48	0.29
	0	Neonatal mortality (under 4 weeks)	18.68	2.96	13.62	3.67	0.16	0.22 0.18	3.14	2.38	0.68	0.52	0.31
	Total	mortality (under 1 year)	25.76	4.72	13.76	4.86	0.16	0.23	3.17	2.41	0.68	0.53	0.32
			(F)	XH	other { F	an of { F	₩±	{ M		 F	rrtum M	 { F	{F
		Cause of death (and International Classification Numbers)	All causes	Congenital malformations (750–759)	Total causes mainly of prenatal and natal origin other M than congenital malformations F	Immaturity alone, or primary to diseases other than of / M early infancy (774–776)	Attributed to maternal toxaemia (769)	Ill-defined diseases of early infancy (773)	Postnatal asphyxia and atelectasis (762)	Intracranial and spinal injury at birth (760)	Other birth injury (including maternal antepartum $\{M\}$ haemorrhage) (761) $\{F\}$	Erythroblastosis (770)	Haemorrhagic disease of newborn (771)
Aetiological group								Prenatal and	(including congenital malformations)				

* I.S.C. Nos. 340, 391-393, 470-483, 518, 519, 690-698, 765-768.

deaths from the principal causes of infant mortality per 1,000 live births; comparison of annual and quarterly rates, 1957, England and Wales Table XLVIII. Stillbirths per 1,000 total births, infant deaths, and deaths in the early neonatal, late neonatal, and post-neonatal periods, and

Aetiological	Cause of death			Quarterly rates	ly rates		Quarte	rly rates per rates	Quarterly rates per cent of annual rates	annual
group	(and International Classification Numbers)	Annual	Jan. to March	April to June	July to Sept.	Oct. to Dec.	Jan. to March	April to June	July to Sept.	Oct. To Dec.
Stillbirths (late f	Stillbirths (late foetal deaths at or over 28 weeks' gestation)	22.45	23.05	22 · 12	22.09	22.56	103	66	86	100
Early neonatal d Late neonatal de Post-neonatal de	Early neonatal deaths (infant deaths at ages under I week)	14.07 2.39 6.66	13.93 2.72 7.92	13.78 2.13 5.72	14.00 2.21 5.42	14.60 2.50 7.62	99 1114	86	100 92 81	104 105 114
Infant deaths (to	Infant deaths (total under 1 year)	23 · 11	24.57	21.63	21.62	24.72	106	94	94	107
	Congenital malformations (750–759) Total causes mainly of prenatal and natal origin other than congenital malformations	4.63	4.75	4.66	4.39	4.71	103	101	98	102
Prenatal and natal group (including congenital malformations)	Immaturity alone, or primary to diseases other than of early infancy (774, 776) Hatributed to maternal toxaemia (769) Hildefined diseases of early infancy (773) Fostnatal asplyxia and atelectasis (762) Fostnatial and spinal injury at birth (760) Other birth injury (including maternal antepartum haemorrhage) (761) Haemorrhagic disease of newborn (771)	4.30 0.21 0.21 3.88 2.01 0.57 0.57	3.97 0.13 0.20 0.20 0.68 0.68 0.60	4.26 0.21 0.21 1.85 0.50 0.50	4.40 0.20 0.19 3.66 0.50 0.51 0.51	4.00 0.25 0.057 0.057 0.37	92 95 107 118 118 96	98 100 103 103 98 98 96	102 1252 103 103 100 125 100 100	1112 1112 100 100 100 100 100 100 100 10
	Total causes mainly of postnatal origin	5.43	6.77	4.51	4.08	6.43	125	83	75	118
Postnatal	Gastro-enteritis (including diarrhoea of newborn) (571, 764) Pneumonia and bronchitis (490–493, 763; 500–502) Causes classified as infective (001–138) and others mainly infective in origin (340, 391–393, 470–483, 518, 519, 690–698, 765–768)	0.44 3.41 0.87	0.55 4.58 0.93	0.44 2.66 0.78	0.32 2.34 0.79	0.45 4.10 0.98	125 134 107	100 78 90	73 69 91	102 120 1113
	Accidental mechanical suffication from vomit, food, foreign body, or in cot (E921-E923). Eack of care, neglect (including foundlings), infanticide (E926, E980-E983). Other accidental causes fremainder E800-E999)	0.00	0.52	0.40	0.41	0.68	104	80 108 111	82 92 111	136
Unclassified	Total causes remaining	1.15	1.33	0.72	1.45	1.13	116	63	126	86
Immaturity, or	(mmaturity, or with mention of immaturity (774, 776, 760.5-773.5)	89.8	8.32	8.56	8.75	9.11	96	66	101	105
Immaturity al	Immaturity alone, or primary to diseases other than of early infancy (774, 776)	4.30	3.97	4.26	4.40	4.57	92	66	102	106
All other causes	All other causes (760.0-773.0 and remainder)	14.43	16.25	13.07	12.87	15.61	113	16	89	108

Table XLIX. Infant mortality per 1,000 live births, and combined stillbirth and infant death rates per 1,000 total births, according to age, in standard regions, conurbations, and urban and rural aggregates within regional groups, 1957, England and Wales

Ceilleiste and in Coat double Bate and One	ant deaths. Kates per 1,000 total births		plus deaths infant at 1 deaths week under and 1 week over 4	36.21 8.84 38.54	40.85 10.84 43.72 37.78 10.09 40.28 40.13 10.71 42.78	35.55 37.82 32.47 7.29 34.22	32.29 6.84 34.11 31.79 7.27 33.79 34.66 7.26 36.76	11.70 12.45 9.59	39.24 10.28 42.06 41.44 11.05 44.33	36.65 38.54 10.25 9.99 40.98	40.05 10.74 42.73 40.38 10.86 43.06 40.03 10.59 42.65	37.84 9.32 40.07 37.81 9.18 40.42	32.23 6.77 34.06
Pho one int	t t	Still- births	foetal deaths at or over 28 weeks' gesta- tion)	22.45	25.63 23.46 25.71	22 · 02 23 · 04 20 · 39	19.64	25·78 26·46 23·88	25.13	22.89	25·54 26·06 25·63	23.27	19.53
Ceillhin	Homne	Still- births		45.05	51.69 47.88 50.84	44 · 44 47 · 07 39 · 77	39·12 39·06 41·93	53.45 55.62 47.40	49.52	46.89	50·79 51·24 50·62	47.16	39.00
		ital	3 months 6 months and and under under 1 year	1.90	2.02	1.76 2.31 1.64	1.35	2.23 2.35 1.91	1.86	2.15	2.26	2.47	1.25
	ses	Post-neonatal period		2.14	2.70	2·38 1·82	1.72	2.43	2.06	2.93	2.42	2.18	1.74
	Infant mortality per 1,000 live births at various ages	1	4 weeks and under 3 months	2.62	3.50	2.50	2.05 1.92 2.08	3.72	3.73	2.78	3.36	2.59	2.06
	births at	Early neonatal	1 day and under 1 week	6.46	7.42 6.41 6.51	6.57 7.28 5.73	5·64 5·80 6·22	8.88 7.73	7.07	6.26	6.54 5.72 7.02	6.57	5.74
	1,000 live		Under 1 day	7.61	8.20 8.25 8.25	7.26 7.86 6.61	7.26	7 · 83 8 · 29 6 · 55	7.39	7.82	8.34 7.77	8.34	7.22
	rtality per		lity (4 weeks and under 1 year)	9.9	8·18 7·78 8·27	6.56	5.12	8.38 8.74 7.37	7.65	7.86	8 · 27 8 · 40 8 · 18	7.26	5.35
	Infant mo	Late neonatal morta-	lity (1 week and under 4 weeks)	2.39	2.98	2.53	1.86 2.05 2.14	3.63 4.05 2.45	2.89	2.63	2.75	2.29	1.87
		Early	neonatal morta- lity (under 1 week)	14.07	15.62 14.66 14.80	13.83 15.13 12.34	12.90 12.74 13.54	16·40 17·16 14·28	14.47	14.08	14.89 14.70 14.78	14.91	12.95
		Neo-	natal morta- lity (under 4 weeks)	16.46	18·57 17·22 17·53	16.36 17.61 14.12	14.76 14.79 15.68	20·03 21·21 16·73	17.36 19.01	16.71	17.64 17.45 17.47	17.20	14.82
		Total infant morta-	lity (under 1 year)	23 - 11	26.75 25.00 25.80	22.92 24.60 19.78	19 · 88 20 · 16 20 · 96	28.41 29.95 24.10	25.01	24.57	25.91 25.85 25.65	24.46	19.86
				ENGLAND AND WALES	NORTH OF ENGLAND Northern East and West Ridings North Western	MIDLANDS AND EASTERN North Midland Eastern	SOUTH OF ENGLAND London and South Eastern Southern South Western	WALES (including Monmouthshire) Wales I (South East) Wales II (Remainder)	Tyneside conurbation	West Yorkshire conurbation Rest of East and West Ridings	S.E. Lancashire conurbation Merseyside conurbation Rest of North Western	West Midlands conurbation	Greater London conurbation

Table L. Infant mortality per 1,000 live births, and combined stillbirth and infant death rates per 1,000 total births, according to age, in urban and rural aggregates within regional groups, 1957, England and Wales

Rates per 1,000	Still- births	plus infant deaths under 4 weeks	38.54	38.11	39.81	38.84	37.06	42.29	41.86	43.64	42.99	41.26
	Infant	at 1 week and over	80 480	8.70	9.14	10.05	8 · 19	10.57	10.59	10.15	13-21	10.05
Stillbirths and infant deaths.	Still- births		36.21	35.87	37-27	36.43	34.74	39.63	39.18	41.13	26.28 18.44 15.87 2.57 7.84 8.67 7.20 3.56 2.30 1.99 51.28 25.68 41·13 10·15 28.67 17.96 15.11 2.84 10·71 8.25 6.86 3.90 3.51 3.29 53·42 25·49 40·22 13·21 25.63 17.80 15·26 2.57 7.80 8·12 7·14 2.96 2.68 2.16 50·49 25·52 40·38 10·11 25.24 17·96 14·94 3·02 7·28 8·12 6·82 2·34 2·34 48·36 23·72 38·31 10·05	38.31
ths and in	Still- births (late	foetal deaths at or over 28 weeks gesta- tion)	52.45	22.29	22.89	22.66	21.39	25.04	24.97	25.68	25.49	23.72
Stillbir	Still- births		45.05	44.57	46.41	46.47	42.93	50.20	49.77	51.28	53.42 50.49	48.36
	lal	3 months 6 months and under under 0 months 1 year	1.90	1.81	1.89	2.34	1.82	2.27	2.19	1.99	3.29	2.40
SX	Post-neonatal period		2.14	2.14	2.19	2.38	1.84	2.60	2.57	2.30	3.51	2.34
arious age	4	4 weeks and under 3 months	2.62	2.66	2.67	3.09	2.34	3.23	3.35	3.56	3.90	2.53
oirths at v	Early neonatal	1 day and under 1 week	6.46	6.10	7.02	6.82	6.28	6.71	6.34	7.20	6.86	6.82
,000 live l	Early n	Under 1 day	7.61	7.79	7.70	7.26	7.36	8.26	8.24	8.67	8.25	8.12
Infant mortality per 1,000 live births at various ages	Post- neonatal	morta- lity (4 weeks and under 1 year)	59.9	19-9	6.75	7.81	00.9	8.10	8.11	7.84	10.71	7.28
fant mort	Late	morta- lity (1 week and under 4 weeks)	2.39	2.29	2.60	2.46	2.37	2.73	2.74	2.57	2.84	3.02
In	Early	neonatal morta- lity (under I week)	14.07	13.90	14.72	14.09	13.64	14.96	14.58	15-87	15.11	14.94
	Neo-	natal morta- lity (under 4 weeks)	16.46	16.18	17.32	16.55	16.01	17.70	17.33	18.44	17.96	17.96
	Total infant morta-	lity (under 1 year)	23.11	22.79	24.07	24.36	22.01	25.80	25.44	26.28	28.67	25.24
			ENGLAND AND WALES	Conurbations	Other urban areas with populations of 100,000 and	with populations of 20,000 and under 100,000 with populations under 50,000	23.64 16.76 14.35 2.63 2.63 2.22 1.97 46.42 23.33 37.35 9.07 22.01 16.01 13.64 2.37 6.00 7.36 6.28 2.34 1.84 1.82 42.93 21.39 37.35 9.07 25.80 17.70 14.96 2.73 8.10 8.26 6.71 3.23 2.60 2.27 50.20 25.04 39.63 10.57 25.44 17.33 14.58 2.74 8.11 8.24 6.34 3.35 2.57 2.19 49.77 24.97 39.18 10.59 26.28 17.96 15.11 2.84 10.71 8.25 6.86 3.90 3.51 2.99 51.28 25.68 41.13 10.15 26.28 17.86 16.71 8.25 6.86 3.90 3.51 2.99 51.28 25.49 40.22 13.21 26.28 17.84 8.25 6.86 3.90 3.51	:				

37.78	40.07	36-92	38.57 38.41	35.75	34.54	34.06		36.09	33.82	34-77	45.29	46.31	51.13	47.13	41 · 11
			53		1						1		_		
8.56	9.32	9.13	∞ ∞	7.57	7.00	6.77		7.24	7.36	7.10	11.70	10.52	20.65	12.72	10.44
35.54	37.84	34.27	36.42	33.74	32.64	32-23		34.11	31.91	32.71	41.76	42.71	42.28	43.64	38.01
21.94	23.27	20.79	22.69	20.93	19.61	19.53		20.51	19.28	19.89	25.78	26.84	26.55	26.68	23.41
44.09	47.16	43.41	45.23	41.31	39.63	39.00		41.35	39.27	39.80	53.45	53.22	62.93	56.36	48.45
1.94	2.47	2.06	1.78	1.71	1.46	1.25		1.85	1.83	1.53	2.23	1.23	4.04	2.92	1.92
2.09	2.18	2.33	2.25	1.62	1.70	1.74		1.85	1.34	1.60	2.43	2.18	2.02	2.54	2.51
2.42	2.60	2.24	2.78	2.34	2.03	2.06		1.68	2.38	2.01	3.72	3.70	90.9	4.03	3.09
09.9	6.57	6.72	6.71	6.11	5.78	5.74		6.58	6.84	5.73	8.57	8 . 44	8.08	9.21	7-77
7.30	8.34	7.06	7.34	26.9	7.21	7.22		7.31	6.04	7.35	7.83	7.87	8.08	8.22	7.18
6.46	7.26	6.63	6.81	5.68	5.19	5.04		5.37	5.56	5.15	8.38	7.11	12.12	9.49	7.51
2.29	2.29	2.70	2.20	2.06	1.94	1.87		2.02	1.95	2.10	3.63	3.70	60.6	3.58	3.17
13.90	14.91	13.77	14.05	13.09	12.99	12.95		13.89	12.88	13.08	16.40	16.30	91.91	17.43	14.95
16.19	17.20	16.47	16.25	15.14	14.94	14.82		15.91	14.83	15.17	20.03	20.00	25.25	21.01	18.13
22.65	24.46	23.10	23.06	20.82	20.13	19.86		21.28	20.39	20.32	28.41	27.11	37.37	30.50	25.64
MIDLANDS AND EASTERN (North Midland, Midland, Eastern)	Conurbation (West Midlands)	Other urban areas with populations of 100,000 and over	under 100,000 with populations under 50,000	Rural districts	SOUTH OF ENGLAND (London and South Eastern, Southern, South Western)	Conurbation (Greater London)	Other urban areas	with normations of 50 000 and	with populations under 50,000	Rural districts	WALES (including Monmouthshire)	Urban areas with populations of	Oroan area with population of 50,000	50,000	Rural districts

Table LI. Principal causes of death under 1 year: Death rates per 1,000 live births, showing regional group rates as percentages of corresponding national rates, 1957, England and Wales

س	Wales	123	122	121	110	181	148	137	89	156	122	172	128	195	125	116
Regional rates per cent of England and Wales rate	South of England	87	85	92	06	81	110	16	85	109	84	88	77	19	77	77
Regional rate England and	Midlands and Eastern	86	102	86	91	125	52	86	113	95	106	100	96	77	95	109
	North of England	112	110	107	116	88	124	86	108	98	110	108	124	143	124	100
ths	Wales	28 - 41	5.67	14.36	4.71	0.29	0.31	5-33	1.78	68.0	0.62	0.43	96.9	98.0	4.27	1.01
,000 live bir	South of England	20.13	3.93	10.97	3.86	0.13	0.23	3.78	1.71	0.62	0.43	0.22	4.17	0.27	2.64	0.67
Infant mortality rates per 1,000 live births	Midlands and Eastern	22.65	4.74	11.65	3.93	0.20	0.11	3.82	2.17	0.54	0.54	0.25	5.20	0.34	3.25	0.95
	North of England	25.80	5.11	12.68	5.00	0.14	0.26	3.79	2.17	0.49	95.0	0.27	6.73	0.63	4.24	0.99
Ini	England and Wales	23.11	4.63	11.90	4.30	0.16	0.21	3.88	2.01	0.57	0.51	0.25	5.43	0.44	3.41	0.87
	Cause of death (and International Classification Numbers)	All causes	Congenital malformations (750-759)	Total causes mainly of prenatal and natal origin other than congenital malformations	Immaturity alone, or primary to disease other than of early infancy (744,776)	Attributed to maternal toxaemia (769)	Ill-defined diseases of early infancy (773)	Postnatal asphyxia and atelectasis (762)	Intracranial and spinal injury at birth (760)	Other birth injury (including maternal antepartum haemorrhage) (761)	Erythroblastosis (770)	Haemorrhagic disease of newborn (771)	Total causes mainly of postnatal origin	Gastro-enteritis (including diarrhoea of newborn) (571, 764)	Pneumonia and bronchitis (490-493, 763, 500-502)	Causes classified as infective (001–138), and others mainly infective in origin. Whooping cough, measles (056, 085)
	Actiological group				Prenatal and natal	(including	malformations)							Postnatal	Anna	

	Acute unner requiretory infections and influence (470.		-							
	475, 480-483)	0.14	0.18	0.17	60.0	0.12	129	121	64	98
	Otitis media and mastoiditis, empyema, pleurisy (391-393, 518, 519)	0.07	90.0	0.08	90.0	01.0	98	114	98	143
	Septicaemia, skin and subcutaneous tissue infections, sepsis of newborn (053, 690–698, 765–768)	0.15	0.17	0.14	0.14	21.0	113	93	93	113
	1 upercurous, other than tubercuous meningitis (001–008, 011–019)	10.0	10.0	0.03	00.00	0.05	100	300	40	200
	Tuberculous meningitis (010)	0.00	00.00	10.0	-	***************************************	100	250	-	1
Postnatal group—(contd.)	Meningococcal infections and non-meningococcal meningitis (057, 340)	0.31	0.35	0.28	0.26	0.43	113	06	84	139
	(remainder 001–138)	90.0	60.0	20.0	0.04	0.05	150	117	19	83
	Accidental mechanical suffocation from vomit, food, foreign body, or in cot (E921-E925)	0.50	0.62	0.46	0.39	0.70	124	92	78	140
	Lack of care, neglect (including foundlings), infanticide (E926, E980–E985)	0.12	0.15	0.13	0.11	0.05	125	108	92	42
	Other accidental causes (remainder E800-E999) .,	60.0	60.0	0.07	60.0	20.0	100	78	100	78
	Total causes remaining	1.15	1.29	1.06	1.06	1.42	112	92	92	123
Unclassified	Neoplasms (140–239)	0.12	0.12	0.13	0.12	0.12	100	108	100	100
	Other remaining causes	1.03	1.16	0.93	1.93	1.30	113	06	06	126
Immaturity, or	Immaturity, or with mention of immaturity (774, 776, 760.5-773.5)	89.8	9.26	8.34	8.07	10.76	107	96	93	124
Immaturity a	Immaturity alone, or primary to diseases other than of early infancy (774, 776) Immaturity associated with diseases of sarly infancy (760, \$ 773.5)	4.30	5.00	3.93	3.86	4.71	116	91	06	110
Carrenge Street	associated with diseases of carry minancy (100 5, 175 5)	4.37	07.4	T4.4	17.5	50.0	1	1001	06	20

*I.S.C. Nos. 340, 391-393, 470-483, 518, 519, 690-698, 765-768.

122

84

66

115

17.65

12.06

14.31

16.54

14.43

All other causes (760·0-773·0 and remainder)

Table LII shows the trend of stillbirth, neonatal and post-neonatal rates over the last five years in the standard regions. Among stillbirths very little change can be detected, but the neonatal rate has fallen more or less steadily in all parts except Wales, where the 1953 rate was lower than in any subsequent year.

Table LII. Trend of stillbirths per 1,000 total births, and of deaths in the neonatal and post-neonatal periods per 1,000 live births*, in standard regions, 1953 to 1957, England and Wales

	. Li	ugiani	a ana	vy ale	55					
			Rates 19:	in each	year 57		Rat	tes in 19 cent of	54 to 1! rate in 1	957 1953
		1953	1954	1955	1956	1957	1954	1955	1956	1957
	ENGLAND AND WALES	22.4	23.5	23.5	22.9	22.5	105	105	102	100
	NORTH OF ENGLAND	24.2	25.8	25.3	24.7	25.0	107	105	102	103
Stillbirths	Northern East and West Ridings North Western	23·3 23·6 25·0	24·8 25·0 26·8	24·7 24·8 26·0	24·8 22·7 25·8	25·6 23·5 25·7	106 106 107	106 105 104	106 96 103	110 100 103
(at or over 28 weeks'	MIDLANDS AND EASTERN	22.2	23.6	23·3	23.2	21.9	106	105	105	99
gestation) per 1,000 total births	North Midland	22·9 23·3 20·0	24·1 24·4 21·8	24·3 24·5 20·7	24·8 24·1 20·4	22·0 23·0 20·4	105 105 109	106 105 104	108 103 102	96 99 102
	SOUTH OF ENGLAND	20.4	20.7	20.2	20.4	19.9	101	99	100	98
	London and South Eastern Southern South Western	20·2 21·0 20·4	20·1 20·5 23·0	19·5 20·5 22·2	19·3 20·9 23·3	19·6 19·3 21·4	100 98 113	97 98 109	96 100 114	97 92 105
	WALES (including Monmouthshire)	25.3	27.3	28.3	26.8	25.8	108	112	106	102
	ENGLAND AND WALES	17.7	17.7	17.3	16.8	16.5	100	98	95	93
	NORTH OF ENGLAND	19.7	19.6	19.2	18.7	17.7	99	97	95	90
	Northern East and West Ridings North Western	19·3 19·8 19·9	20·4 18·1 20·2	21·3 17·3 19·2	18·9 18·5 18·6	18·6 17·2 17·5	106 91 102	110 87 96	98 93 93	96 87 88
	MIDLANDS AND EAST- ERN	17.7	17.9	16.7	16.6	16.2	101	94	94	92
Neonatal mortality per 1,000	North Midland	18·0 18·9 15·7	18·0 19·4 15·5	17·0 18·0 14·6	16·9 17·6 14·8	16·4 17·6 14·1	100 103 99	94 95 93	94 93 94	91 93 90
live births	SOUTH OF ENGLAND	15-4	15.3	15.4	14.8	14.9	99	100	96	97
	London and South Eastern Southern South Western	15·0 15·4 16·5	14·8 16·2 16·3	15·2 15·8 15·5	14·6 15·0 15·0	14·8 14·8 15·7	99 105 99	101 103 94	97 97 91	99 96 95
	WALES (including Monmouthshire)	19-7	21.5	20.8	20.6	20.0	109	106	105	102
	ENGLAND AND WALES	9.1	7.7	7.6	6.9	6.7	85	84	76	74
	NORTH OF ENGLAND	10.6	9.2	9.0	8.2	8 · 1	87	85	77	76
	Northern East and West Ridings North Western	11·6 10·7 10·0	9·2 9·7 9·0	9·9 8·9 8·7	8·2 7·7 8·4	8·2 7·8 8·3	79 91 90	85 83 87	71 72 84	71 73 83
	MIDLANDS AND EAST- ERN	8.8	7.4	7.7	6.8	6.5	84	87	77	74
Post-neonatal mortality per 1,000	North Midland	9·8 8·9 7·6	8·0 7·9 6·2	8·7 8·1 6·0	7·4 7·2 5·8	6·6 7·0 5·7	82 89 82	89 91 79	76 81 76	67 79 75
live births	SOUTH OF ENGLAND	7.7	6.1	5.9	5.6	5.2	79	77	73	68
	London and South Eastern Southern	7·6 8·0 8·1	5·5 7·0 7·2	6·0 5·8 5·7	5·7 5·6 5·2	5·1 5·4 5·3	72 88 89	79 72 70	75 70 64	67 68 65
	WALES (including Monmouthshire)	11.6	10-0	10-6	8.2	8-4	86	91	71	72

^{*} Rates prior to 1957 per 1,000 related live births.

Post-neonatal mortality has steadily declined in all parts of the country, the greatest falls being recorded in the North Midland region and South of England regional group, where the present rates amount to about a third of the 1953 mortality rate. The post-neonatal rate in Wales has fallen by 28 per cent, which is similar to that for England and Wales as a whole. The decline in mortality in the previous five years (1948–52) was greater (35 per cent) for England and Wales, but in the South of England and Wales it has remained about the same, and in the North, and Midlands and Eastern the rate of fall has diminished.

	Percentage ineonatal	
	 1948 to 1952	1953 to 1957
North of England Midlands and Eastern South of England Wales	40 32 31 26	24 26 32 28

TUBERCULOSIS

There were 4,784 deaths assigned to tuberculosis in 1957 compared with 5,375 in 1956, a fall of 591 or 11 per cent. Male deaths numbered 3,414 and female 1,370 compared with 3,804 and 1,571 respectively in 1956. Thus the reduction in the female deaths (13 per cent) was slightly greater than in the males (10 per cent).

The table below gives details of the death rates from all forms of tuberculosis in four main age-groups in 1956 and 1957, together with the percentage decline since 1956.

		Males			Females	
Age at death	Death per millio		Percentage fall in	Death per millio		Percentage fall in
	1956	1957	death rate	1956	1957	death rate
0	10 76 343 608	9 62 300 576	10 18 13 5	7 70 79 137	10 61 64 121	-43 13 19 12
All ages	177	158	11	68	59	13

The rise in the death rate of female children from tuberculosis is unlikely to be of any significance. There was a fall in the rate for this group between 1955 and 1956 of 59 per cent and in Part III of the 1956 Review* it was stated that with the few deaths involved random fluctuations would become more obvious. The figure for 1957 appears to confirm this statement, for since 1955 there was a 41 per cent fall in the rate: equal to just over 20 per cent for each year. For all the other sex- and age-groups there was a fall in the death rate in 1957 varying from 5 to 19 per cent.

Deaths from respiratory tuberculosis numbered 4,249, representing a fall of 604 (12 per cent) on the number for 1956. On the other hand, for the first time for many years there was a rise in the number of deaths from the non-respiratory form of the disease from 522 in 1956 to 535 in 1957. This represents an increase of 2 per cent, does not reach the level of statistical significance, and may be simply a temporary fluctuation (see page 95).

Respiratory tuberculosis

The death rates per million from respiratory tuberculosis for 1957 and preceding years are shown by sex and age in Table LIII (page 93). Although one or two of the rates for the younger age-groups remained constant in 1957 when compared with 1956, they were already very low. In all other sex- and age-groups the rate fell in 1957. There were no deaths of boys aged 5–9 nor of girls aged 10–14 assigned to respiratory tuberculosis in 1957.

^{*} Registrar General's Statistical Review for 1956, Part III, Commentary, page 104. H.M.S.O. London, price 16s. 6d. net.

Table LIII. Tuberculosis of the respiratory system: Death rates per million living by sex and age, 1931–1945, and 1946 to 1957, England and Wales

<i>Dy</i> 30.		50, 17	J1 1)-	15, 411	1 1740	10 17.	, EII &	sianu a	mu wa	165	
	0-	5–	10-	15-	20-	25-	35–	45-	55-	65-	75 and over
						Males					
1931–35	85	42	64	490	963	961	1,140	1,368	1,176	723	275
1936–40	61	20	44	366	742	785	937	1,210	1,216	718	296
1941–45	76	24	34	339	581	674	811	1,114	1,203	741	295
1946	68	22	23	239	481	615	687	1,020	1,165	768	340
1947	77	15	29	241	500	632	679	1,034	1,213	812	267
1948	56	10	14	211	445	603	633	961	1,166	881	334
1949	33	6	<i>I3</i>	127	368	496	591	869	1,153	927	380
1949*	34	7 9 7 4	14	127	366	497	592	869	1,159	937	400
1950*	38		8	78	229	395	428	751	1,024	891	411
1951*	30		7	46	171	292	364	636	978	953	464
1952*	15		10	35	102	201	287	503	829	843	447
1953*	14	4	3	18	71	156	214	413	712	814	445
1954*	9	2	1	13	55	130	192	370	643	778	406
1955*	3	1	1	8	30	93	151	307	535	705	420
1956*	7	1	2	7	14	71	113	231	456	640	463
1957*	3	·	2	3	12	40	105	193	410	605	436
-					1	Females		1	,		
1931–35	74	43	143	840	1,138	911	646	475	394	306	170
1936–40	55	24	98	658	1,016	759	511	377	339	272	160
1941–45	72	24	76	591	916	692	427	304	269	220	123
1946	60	25	69	468	842	662	382	261	242	207	119
1947	70	24	63	502	899	730	411	267	249	224	133
1948	52	19	53	462	812	702	367	255	235	218	105
1949	33	9	30	349	684	622	348	253	245	229	127
1949*	33	10	30	351	682	622	348	254	249	236	139
1950*	29	8	15	199	429	444	273	229	212	212	144
1951*	25	8	14	108	278	347	238	192	180	198	135
1952*	18	5	6	58	169	230	166	131	148	150	159
1953* 1954* 1955* 1956*	17 11 .6 4	5 2 2 1	3 3 4	32 31 12 6	122 84 56 35	174 143 113 80	146 145 101 79	116 104 84 62	130 107 95 70	162 137 111 111	140 117 115 125
1957*	4	1	_	6	12	70	75	53	55	80	91

^{*} According to the Sixth (1948) Revision of the International List. Throughout the rest of the table rates are according to the Fifth (1938) Revision.

Notification rates for respiratory tuberculosis are shown in Table LIV (page 94). As with the mortality rates, the trend is generally downwards although the rate of decline is somewhat less. It is difficult to separate the increase in notifications in 1940–1950, which was due to increased case finding and availability of diagnostic aids, from the real decline in incidence which is almost certainly taking place, at least in more recent years. This difficulty is still felt among the older ages in both sexes and particularly the males where the notification rate in 1957 was much higher than in 1938. Provided that there has been

no real increase in incidence, this high notification rate among older people is not, in itself, a bad thing, for a case notified is a case known and therefore less likely to transmit infection and more easily treated. As the relatively tuberculosisfree cohorts become older it is to be anticipated that the notification rate will begin to fall in the older age-groups.

Table LIV. Tuberculosis of the respiratory system: Notification rates per 100,000 living, by sex and age, 1938 to 1957, England and Wales

	iving, by	sex and	age, 1938	8 to 1957	, Englar	id and W	ales	
	All ages	0-	5	15-	25-	35–	45-	65 and over
				Ma	les			
1938	108	20	42	141	137	136	136	52
	98	17	32	132	124	124	125	46
1940	104	17	29	145	146	128	123	43
	115	20	33	154	155	148	141	50
	117	22	38	165	148	153	142	49
	119	27	40	166	144	154	152	50
	122	30	41	180	158	142	149	56
1945	118	32	40	178	160	135	142	53
	119	32	46	179	174	125	138	54
	118	40	53	193	163	116	137	56
	117	44	51	215	161	117	139	64
	119	46	49	180	159	122	146	68
1950	111	53	49	159	154	107	135	67
	115	53	48	170	156	117	141	72
	112	52	51	165	147	116	135	77
	110	49	49	155	133	114	139	85
	100	41	40	143	125	106	126	82
1955	92	36	34	125	110	96	121	81
	88	29	28	115	101	92	121	87
	82	26	23	99	97	90	114	87
				Fema	ales			
1938	77	18	42	175	129	72	42	19
	71	15	33	166	116	68	37	18
1940	70	17	30	168	120	66	35	16
	76	19	33	185	126	69	41	19
	78	20	34	204	130	70	37	18
	83	26	40	209	142	73	40	18
	86	26	40	227	150	75	38	18
1945	81 80 83 86 85	26 28 33 46 44	41 49 51 58 53	223 213 235 244 238	140 141 146 151 155	69 65 66 68 71	34 35 35 35 35 35	16 16 17 17 17
1950	82	43	52	238	152	69	31	16
	81	50	52	229	149	68	33	16
	80	49	53	216	148	71	35	16
	77	45	52	201	141	73	34	18
	68	37	44	187	124	63	30	17
1955	60	35	38	156	112	59	30	17
	55	30	31	139	101	57	29	18
	49	30	27	116	90	55	29	17

^{*} Notifications of respiratory tuberculosis used in this and subsequent tables for 1956 and 1957 are those returned to the General Register Office, and not, as in previous years, those returned to the Ministry of Health. There is a small but insignificant difference between the figures from the two sources. Cases of unstated age are omitted for these two years.

Non-respiratory tuberculosis

The rise in the number of deaths from non-respiratory tuberculosis was mentioned earlier. The breakdown of this group into individual causes with the number of deaths in each year is shown in the table below:

			N	lumber	of death	ns	
I.S.C. No.	Cause of death	Ma	les	Fem	ales	Per	sons
		1956	1957	1956	1957	1956	1957
010 011 012 012·0 012·1–3 013 014 015 016 017 018 019	Tuberculosis of: Meninges and central nervous system Intestines, peritoneum, and mesenteric glands Bones and joints Vertebral column Other Late effects, bones and joints Skin and subcutaneous cellular tissue Lymphatic system Genito-urinary system Adrenal glands Other organs Disseminated Total	39 35 48 37 11 4 -9 82 11 6 36	47 28 42 33 9 2 5 81 9 10 38	52 35 36 28 8 5 4 6 6 64 5 6 39	63 27 49 39 10 3 2 13 44 9 13 48	91 70 84 65 19 9 4 15 146 16 12 75	110 55 91 72 19 5 4 18 125 18 23 86

From this table it will be seen that the only causes in which there was a rise in both sexes were tuberculosis of the meninges and central nervous system, disseminated tuberculosis, and tuberculosis of "other organs". This last group includes disease of the eye, ear, pericardium, stomach, etc., and is so heterogeneous as to make further analysis impracticable. As far as tuberculosis of meninges and central nervous system and disseminated tuberculosis are concerned, they are aetiologically rather closely related in that it is often generalised tuberculosis which gives rise to the meningeal form. The age distribution of these two forms of the disease in 1956 and 1957 is shown below:

					Number	of deaths	
	Age				of meninges servous system	Disseminated	l tuberculosis
				1956	1957	1956	1957
0- 5- 15- 45- 65 and ov	rer	•••	• •	30 19 24 14 4	34 23 29 18 6	6 2 23 19 25	12 5 19 21 29
All ages	••	••	• •	91	110	75	86

Table LV. Tuberculosis: Comparative mortality indices for various sites, 1931 to 1957, England and Wales

			ms		ratory		inges C.N.S.	perito	tines, neum,		s and nts		her
-		M	F	M	F	M	F	M	F	M	F	M	F
1931		1·39	1·47	1·38	1·47	1·44	1·39	1·75	1·91	1·53	1·72	1·24	1·23
1932		1·30	1·38	1·27	1·36	1·38	1·28	1·78	1·65	1·45	1·88	1·28	1·34
1933		1·29	1·34	1·29	1·35	1·21	1·18	1·50	1·72	1·46	1·52	1·19	1·10
1934		1·20	1·24	1·19	1·24	1·22	1·22	1·34	1·45	1·41	1·56	1·07	1·12
1935		1·13	1·16	1·13	1·18	1·10	1·01	1·23	1·31	1·29	1·39	0·97	0.98
1936		1·09	1·10	1·09	1·11	1·06	1·00	1·08	1·23	1·21	1·33	1·02	0.95
1937		1·08	1·12	1·08	1·12	1·04	1·02	1·19	1·09	1·12	1·24	1·04	1.12
1938		1·00	1·00	1·00	1·00	1·00	1·00	1·00	1·00	1·00	1·00	1·00	1.00
1939		1·01	0·99	1·02	1·00	0·92	0·93	0·96	0·92	1·05	1·14	0·98	0.93
1940	••	1·18	1·08	1·22	1·09	1·06	1·07	1·09	1·05	1·10	0·99	0·92	1·05
1941		1·28	1·11	1·36	1·09	1·42	1·37	1·27	1·00	1·03	1·11	1·32	1·12
1942		1·19	0·99	1·27	0·97	1·20	1·13	1·27	1·08	1·30	1·06	1·13	0·99
1943		1·26	0·98	1·33	0·96	1·13	1·14	1·02	0·96	1·22	0·99	1·14	0·98
1944		1·21	0·92	1·27	0·91	1·05	1·02	0·97	0·81	1·05	0·94	1·11	1·00
1945		1·17	0·92	1·23	0·91	1·01	1·04	0·93	0·71	1·01	0·81	1·08	0·92
1946		0·94	0·86	0·97	0·86	0·88	0·89	0·69	0·53	0·69	0·80	0·81	0·86
1947		0·90	0·89	0·93	0·92	0·81	0·81	0·56	0·62	0·58	0·66	0·83	0·86
1948		0·83	0·82	0·87	0·85	0·64	0·70	0·45	0·51	0·54	0·65	0·70	0·68
1949		0·76	0·72	0·80	0·77	0·55	0·56	0·39	0·37	0·39	0·48	0·64	0·49
1950	•••	0·62	0·55	0·66	0·58	0·42	0·48	0·23	0·25	0·38	0·39	0·47	0·44
1951		0·55	0·45	0·58	0·46	0·43	0·46	0·21	0·24	0·29	0·35	0·43	0·39
1952		0·44	0·31	0·47	0·32	0·26	0·26	0·17	0·16	0·28	0·26	0·37	0·32
1953		0·37	0·26	0·39	0·27	0·18	0·18	0·15	0·14	0·17	0·26	0·31	0·31
1954		0·33	0·22	0·36	0·23	0·10	0·10	0·10	0·14	0·19	0·24	0·35	0·29
1955	••	0·27	0·17	0·30	0·18	0·07	0·07	0·11	0·10	0·16	0·16	0·27	0·25
1956		0·23	0·14	0·25	0·14	0·04	0·06	0·08	0·08	0·12	0·13	0·21	0·23
1957		0·20	0·12	0·22	0·12	0·05	0·07	0·07	0·06	0·10	0·17	0·21	0·23

The increases in deaths assigned to these two causes were not concentrated in any particular age-group, and are so small that they are probably of no importance. The position demands careful watching, however, in case this supposition is wrong and the upward trend is maintained.

The picture given above is summarised in Table LV (above) where the comparative mortality indices (C.M.I.s) are shown for tuberculosis of various sites. The small rise in C.M.I.s for both sexes for tuberculosis of meninges and central nervous system is shown in this table. The magnitude of the increase is also put into its proper perspective.

Table LVI. Tuberculosis of the meninges and central nervous system, and other non-respiratory tuberculosis: Death rates per million living, by sex and age, 1931–1935, and 1936 to 1957, England and Wales

			losis of a				C	ther non	-respirat	ory tube	rculosis	
	0-	5	10-	15-	25-54 E.A.D.R.	55 and over	0-	5	10-	1:5-	25-54 E.A.D.R.	55 and over
						Ma	les					
1931–35 1936 1937 1938 1939	414 313 319 297 284	123 129 91 96 90	66 60 66 57 52	49 42 42 42 38	13 11 13 13 13	3 3 2 3 4	219 152 168 156 125	71 52 55 45 45 53	42 43 39 34	105 92 79 87 89	71 66 71 61 63	75 61 60 52 60
1940 1941 1942 1943 1944	300 402 321 288 273	96 136 107 110 102	55 67 67 55 62	48 55 53 50 51	13 14 14 12 12	3 4 2 5 2	146 188 134 134 109	41 46 50 42 34	35 43 46 36 34	89 91 84 73 67	65 60 65 56 51	62 59 59 54 59
1945 1946 1947 1948 1949	266 222 215 179 153	100 86 83 62 54	65 72 53 33 25	47 42 39 30 26	11 11 11 9 7	2 3 4 4 4	107 87 92 57 34	38 21 33 25 15	35 27 25 16 14	67 51 46 41 38	53 50 45 41 37	49 43 44 44 38
1950 1951 1952 1953 1954	103 109 67 46 22	40 37 16 40 4	24 22 14 -8 5	20 19 13 10 4	8 7 5 3 3	4 5 4 2 1	24 17 19 12 13	8 5 1 3 3	12 6 6 6 2	25 19 14 7	28 26 20 17 17	38 34 38 30 31
1955 1956 1957	14 10 6	5 3 3	3 3 5	3 2 3	1 1 1	2 1 1	8 4 6	2 1 1	1 2 1	9 3 4	16 12 11	25 24 22
,						Fem	ales					
1931–35 1936 1937 1938 1939	356 283 291 300 252	125 98 89 100 77	73 58 61 60 66	48 47 50 40 47	10 9 9 8 9	2 1 2 2 2	160 129 132 112 102	59 37 46 40 38	50 38 43 36 32	84 66 72 73 69	58 51 48 45 41	62 45 52 42 40
1940 1941 1942 1943 1944	278 370 290 277 234	96 138 101 106 95	71 80 69 63 78	61 70 64 72 58	11 12 11 10	2 1 3 4	118 141 92 101 86	34 50 30 32 33	26 34 44 34 26	80 83 79 74 67	50 42 49 42 42	40 48 42 46 44
1945 1946 1947 1948 1949	246 199 184 166 126	107 97 78 53 45	71 67 55 54 35	60 52 52 44 33	10 9 9 8 8	2 2 3 2	84 64 65 56 33	29 28 26 20 10	41 22 29 15 7	55 53 57 39 26	35 34 34 30 24	42 37 34 34 27
1950 1951 1952 1953 1954	116 102 57 48 18	39 33 20 13 6	22 35 17 6 3	31 30 16 9 8	5 6 4 3 2	3 1 1 1	20 15 10 16 4	9 4 4 2 3	5 6 4 1 5	22 14 9 9	19 18 12 13 12	27 29 25 22 23
1955 1956 1957	17 9 14	6 2 4	2 4 2	2 5 3	thod of c	1 1 1	11 2 4	$\frac{3}{1}$	3 1 1	3 3 4	9 10 6	19 16 22

Rates have been adjusted to the 1948 method of classification throughout.

Table LVI (above) shows the death rate per million from tuberculosis of the meninges and central nervous system and from other forms of nonrespiratory tuberculosis.

The notification rates from non-respiratory tuberculosis are shown in Table LVII (page 98). The rate for males aged 45 and over was the same in 1957 as it was in 1956. For females aged 25–44 there was a slight increase from 118 per million in 1956 to 121 per million in 1957. The notification rates for all other sex- and age-groups fell in 1957 compared with the previous year. As with the mortality figures, it is not thought that these small increases are of any importance, but they require to be watched.

Table LVII. Non-respiratory tuberculosis: Notification rates per million living, by sex and age, 1938–1945, and 1946 to 1957, England and Wales

					Males			-		Female	es	
			All	0-	15-	25-	45 and over	All	0-	15	25-	45 and over
1938- 1941-			290 269	744 698	341 326	151 148	72 64	264 261	641 632	403 413	172 178	61 63
1946 1947 1948 1949 1950	••	••	217 202 197 171 151	569 518 505 423 350	250 227 243 211 186	123 114 99 93 93	53 54 53 50 48	210 196 199 174 164	518 455 473 399 343	334 317 333 304 288	149 144 138 127 139	47 51 46 40 39
1951 1952 1953 1954 1955			149 135 122 109 96	327 275 233 192 145	196 196 163 149 154	98 91 85 93 85	48 50 59 48 48	159 146 133 133 109	314 272 224 199 144	300 242 240 245 203	131 135 129 140 126	46 54 51 56 48
1956 1957	• •	• •	87 76	121 91	131 119	83 74	49 49	98 93	113 103	188 162	118 121	49 46

Geographical and urban and rural variations in tuberculosis rates

Table LVIII (page 99) shows standardised mortality ratios (S.M.R.s) and standardised notification ratios (S.N.R.s), calculated in a similar manner, for standard regions, conurbations, and urban and rural aggregates in England and Wales. While regional S.M.R.s are probably a fairly accurate indication of mortality from the disease, notification rates do not necessarily indicate the relative morbidity, as case-finding programmes in local areas may result in increased numbers of notifications without there being any real increase in morbidity.

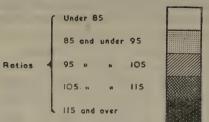
Considering first the urban and rural aggregates, the male mortality, as revealed by the S.M.R., was above the average in urban areas with populations of 50,000 or more and for females in areas of 100,000 or more. In 1957 the S.M.R. for males in urban areas of between 50,000 and 100,000 population was 121, compared with 97 in 1956, and this relative worsening in their position was the result of an increase in the death rate of males aged 65 and over in these areas, from 496 per million in 1956 to 650 per million in 1957 (see Table LIX, page 101). The number of deaths involved was not large (79 in 1956, 104 in 1957). The death rate for males in all other urban and rural aggregates fell in 1957. There were some changes in the relative position of the S.M.R. for females in 1957 in these aggregates but in all cases the crude death rate fell. S.N.R.s remained approximately the same with high ratios in conurbations and low ones in rural areas.

Table LVIII. Tuberculosis of the respiratory system: Standardised mortality ratios and standardised notification ratios*, by sex, in standard regions, conurbations, and urban and rural aggregates outside the conurbations, 1957, England and Wales

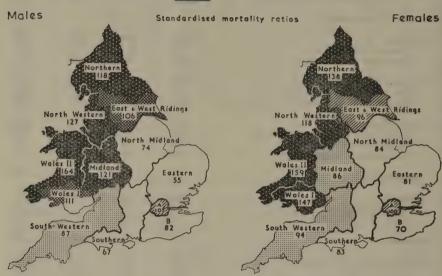
			1	
	Ma	les	Fem	ales
	S.M.R.	S.N.R.	S.M.R.	S.N.R.
ENGLAND AND WALES	100	100	100	100
Regions and conurbations:				
Northern	118 126 115	108 162 89	138 165 128	118 163 101
East and West Ridings	106 93 115	95 96 94	96 91 100	87 85 88
North Western South East Lancashire conurbation Merseyside conurbation Remainder of North Western	127 116 189 109	103 96 158 82	118 104 153 113	103 90 174 77
North Midland ,	74	83	84	90
Midland West Midlands conurbation Remainder of Midland	121 147 97	102 120 85	86 77 96	101 112 90
Eastern	55	74	81	82
London and South Eastern	97 103 82	117 126 88	92 100 70	103 110 81
Southern	67	84	83	89
South Western	87	82	94	88
Wales (including Monmouthshire)	126 111 164	113 116 107	151 147 159	136 146 108
Urban and rural aggregates: Conurbations	117	122	104	113
Urban areas with populations of 100,000	116	116	123	106
Urban areas with populations of 50,000 and under 100,000 Urban areas with populations under 50,000 Rural districts	112 82 75	99 87 63	99 90 89	99 92 78

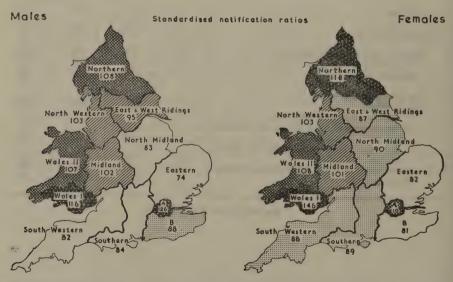
^{*} See footnote to Table LIV.

Diagram 4



- Greater London conurbation
- B Remainder of London and South Eastern





Tuberculosis of the respiratory system: Standardised mortality ratios and standardised notification ratios in the standard regions, by sex, 1957, England and Wales

Persons	Notifications per 100 deaths	687	731	663	626	708		649 607 570	834 662 568 692	458	538	617 532
Pe	All	95	106	110	103	81 75		113 98 117	124 89 106 153	145	122	. 93
	65 and over	89	92	93	92	98		134 61 73	176 71 34	88	99	100
	45-	54	59	65	54	51	-	688	252.34	06	09	53
	25-	72	73	86	84	29.8		107 77 99	133 68 75 170	112	120	71 69
Females	15-	6	10	16	1	12		19	18 10 14 10	18	1	11
	۲	1	1	1	Tona Co	1		111	1111	La	1	H
	-0	4	.67	1	departure	00		∞	111	ı	I	15
	All	47	- 64	57	47	43		62 45 56	75 444 68 68	19	99	47
	65 and over	550	711	672	650	414		625 597 664	583 493 539 1,154	913	886	432
	45-	284	314	322	301	247		324 276 375	330 228 363 500	434	302	302
	25-	73	80	. 81	79	63		8880	154 96 81 144	128	55	63
Males	15-	∞	11	1	14	10	-	971	122		91	25
	-5	I	-	4	1	11		101	0	^	I	1 1
	-0	, %	ŧ	I	15	10		15	HIII	Name of the last o	48	14
	All	146	169	167	164	123		165 156 185	177 140 170 247	231	194	141
		ENGLAND AND WALES	Urban and rural aggregates: Conurbations	Areas outside conurbations of Urban areas with populations of 100,000 and over	50,000 and under 100,000	Urban areas with populations under 50,000 Rural districts	NORTH OF ENGLAND	Regions: Northern East and West Ridings North Western	Conurbations : Tyneside West Yorkshire South Bast Lancashire Merseyside	populations	50,000 and under 100,000	So,000 Rural districts

* See footnote to Table LIV.

				Males							Females				Per	Persons
	All	-0	4	15-	25-	45-	65 and over	All	-0	4	15-	25-	45-	65 and over	All	Notifica- tions per 100 deaths
MIDLANDS AND EASTERN																
Midland Eastern	107 167 80	101		14	\$4 54 54 54	200 380 162	415 646 283	38	10	111	5 10 15	72 55 55	4 5 8 4 4 8 4 4 8	57 79 82	72 102 59	777 654 856
Conurbation; West Midlands	200		1	15	71	464	816	35	1	1	13	54	63	22	115	999
Urban areas with populations of 100,000 and over	142	1	1	1	99	270	618	47	1	1	ı	84	38	112	92	759
50,000 and under 100,000.	139	1	1	28	95	309	389	39	I	Ţ	1	72	56	41	88	715
S0,000 Rural districts	95	100	11	9	45	181	369	38	19	11	22 5	52	39	76	66	816
GREATER LONDON	151	1	1	7	62	250	730	48	_	2	00	57	54	119	97	811
SOUTH OF ENGLAND Regions:	000	5														
South Western	129 129	211	114	110	63	242	370 312 497	39 45	10	111	000	74	39 45	76 87	868	689 849 633
Urban areas with populations of 100,000 and over Urban areas with nonulations of	138	1	0	1	51	261	586	20	1	1	33	25	59	41	92	826
50,000 and under 100,000 Urban areas with populations under	150	I	1	1	20	280	565	45	1	1	1	65	46	90	94	652
So,000 Rural districts	110	10	11	14	75	215	366	33	10	11	11	55	31	82 73	69	773
WALES (including Monmouthshire) Wales I (South East) Wales II (Remainder)	189 164 253	111	111	001	102 77 172	390 340 522	597 557 683	70 88 76	111	21	12822	107	69 19 89	163 142 203	128 1115 162	623 732 428
Urban areas with populations of 100,000 and over Urban area with nonulation of	142	1	1	- Banana	20	322	440	84	I	1	24	114	96	206	112	820
50,000 and under 100,000 Urban areas with populations under	347	1	1	1	385	526	606	99	1	1	1	I	1	556	202	617
S0,000 Rural districts	184	11	11	15	99	358	618	59	11	17	14	129	59	130	126	631

Table LX. Tuberculosis of the respiratory system: Notification rates* per 100,000 living, by sex and age, in standard regions, 1957, England and Wales

						0						I			
				Males							Females	50			Persons
	All	-0	5-	15-	25-	45-	65 and over	All	-0	5-	15-	25-	45-	65 and over	All
ENGLAND AND WALES	82	26	23	66	93	114	06	49	30	27	116	72	29	18	65
Standard Regions:															
Northern	88	38	34	110	100	121	75	59	33	36	142	85	31	17	73
East and West Ridings	78	24	22	80	68	107	95	43	24	27	101	59	29	12	09
North Western	85	25	26	66	95	119	94	51	38	32	127	74	26	14	29
North Midland	89	22	23	102	71	93	71	45	27	29	112	57	29	17	56
Midland	83	34	30	108	95	113	70	51	55	35	124	99	22	18	29
Eastern	19	23	19	9/	73	83	54	40	29	22	83	63	22	20	50
London and South Eastern	97	29	18	123	108	132	122	51	25	21	115	78	33	20	72
Southern	70	91	15	65	98	105	84	4	91	21	78	72	30	25	56
South Western	89	19	20	75	80	91	81	43	11	23	103	69	25	18	54
Wales (including Mon-mouthshire)	93	24	34	113	105	134	84	89	36	31	171	96	39	28	80
Wales I (South East)	95	22	36	123	107	136	92	74	36	36	181	104	4	28	84
Wales II (Remainder)	68	29	28	06	100	129	100	52	35	18	144	75	27	27	69
White the second															-

* See footnote to Table LIV.

The general picture revealed by study of the S.M.R.s and S.N.R.s for regions and individual conurbations is similar to that shown in 1956. There were high S.M.R.s for males in the Merseyside conurbation (189), the West Midlands conurbation (147), and Wales (other than South East Wales) (164), and for females in the Tyneside (165), and Merseyside (153), conurbations, and in Wales (151). The unfavourable mortality of males in the West Midlands conurbation (147) should be compared with the favourable position of females in the same area (77). Although differences do occur in other regions between the S.M.R.s of males and females in none does it reach the same magnitude. The difference does not extend to the S.N.R.s. Areas with low mortality include the Eastern, Southern and South Western regions. The maps in Diagram 4 (page 100) show the S.M.R.s and S.N.R.s for males and females in standard regions.

Table LXI. Tuberculosis of the respiratory system: Ratio of deaths per 100 notifications*, by sex and age, and equivalent average notification rates for persons aged 15-44 in standard regions, 1957, England and Wales

			Rat	io of	deaths pe	er 100 :	notific	ations	
	E.A.N.R.		. N	lales			Fe	males	
	15-44	15-	25–	45-	65 and over	15-	25-	45-	65 and over
ENGLAND AND WALES Standard regions:	91	-1	78	25	61	1	10	19	48
Northern East and West Ridings North Western North Midland Midland Eastern London and South Eastern Southern South Western Wales (including Monmouthshire) Wales II (South East) Wales III (Remainder)	104 81 94 78 92 72 101 76 79 115 121	$ \begin{array}{c} 1\\2\\1\\1\\1\\0\\-1\\1\\1 \end{array} $	10 10 9 7 6 6 6 8 10 7	27 26 31 22 33 19 19 21 26 29 25 41	83 63 70 58 92 52 51 37 61 71 73 68	1 1 0 1 2 1 1 1 1 0 1 2	13 13 13 13 13 8 9 7 8 11 11 12 10	19 20 26 15 24 16 15 18 18 18 14 33	79 50 53 34 44 40 53 21 49 58 50 75

^{*} See footnote to Table LIV.

Table LX (page 103) shows the notification rate for respiratory tuberculosis per 100,000 living by sex, age, and region. It has already been explained why notification rates cannot necessarily be taken as an accurate indication of regional morbidity. Among males the highest crude notification rate was in the London and South Eastern region, and in Wales I (South East) for females. The highest age-specific notification rate was also to be found in Wales I, where for women aged 15–24 the rate was 181 per 100,000 population.

Table LXI (above) shows the ratio of deaths per 100 notifications by sex and age. .

Mass miniature radiography statistics

Tables LXII and LXIII (pages 106–108) show for males and females respectively the number of examinations made and the number of cases of respiratory tuberculosis requiring close supervision found by Mass Miniature Radiography units in 1957.

There were 3,514,600 examinations made in 1957 and 6,481 cases of respiratory tuberculosis were found requiring treatment or close clinic supervision. This represents a rate of 1.8 cases per 1,000 examinations compared with 2.0 in 1956.

The number of cases found was equal to 22 per cent of all cases of respiratory tuberculosis notified.

The individual categories of persons examined presented approximately the same general picture as in previous years. The highest incidence of cases was found among cases referred by general practitioners, although for both sexes the rates were slightly lower in 1957 than in 1956. The largest number of examinations was conducted among members of the general public and in factories, offices, etc. Together they were responsible for 75 per cent of all examinations, but produced only 60 per cent of the cases.

Table LXII. Numbers of examinations made among males and cases of respiratory tuberculosis* requiring treatment or close clinic supervision observed by mass radiography units, distinguishing age and category of person examined. Rates per 1,600 examinations, 1957, England and Wales

(The total numbers of examinations have been derived from a 10 per cent sample of record cards)

							Males	es					
Category of persons examined							Age-groups	săno					
		All	Under 14	14	15-	20-	25-	35-	45-	55-	-09	65 and over	Not
Out-notionts and in-	Total number of examinations	8,720	160	08	420	069	1,390	1,660	2,110	780	570	098	1
patients of hospitals		1.6	11	1 [2.5	0.6	0.9	5.1	5.3	1.2	11
U.M. Dorono accounite	Total number of examinations	85,610		06	49,400	34,690	1,320	80	1		bassa	1	30
Thirt Forces rectules		1.0		11	1.0	1.2	1 1	H	1,1	11	da es	11	11
Donner	Total number of examinations	107,860	5,030	1,100	7,530	10,510	21,450	19,420	19,690	9,200	6,730	7,160	40
general practitioners	requiring treatment or close supervision Rate	1,140	2.6	5.5	8.9	8.3	9.6	10.0	250 12·7	134	12.2	13.3	11
Calant attitude	Total number of examinations	172,680	62,880	59,210	50,580	1	Vindentia		1	No.			10
(School groups)	requiring treatment or close supervision Rate	104	0.7	0.5	0.6	11	11	11	11	! 1	11	11	11
Contacte	Total number of examinations	27,520	8,510	2,770	3,880	1,580	3,570	3,580	2,310	580	300	420	20
College		2.2	1.2	1.1	2.1	3.2	2.8	3.4	2.2	5.2	6.7	7.1	11
Porsons covered hy	Total number of examinations	7,690	180	20	440	390	1,280	1,680	1,870	820	650	360	Į
		1.2	5.6	11	11	11	8.0	1.2	1.1	1.2	1.5	2.8	11
Persons in factories/	Total number of examinations	1,030,390	1		86,130	111,330	264,190	245,150	200,160	68,140	39,660	15,170	460
offices (General surveys)		1,459	11		1.0	1.4	336	314	315	2.2	1.7	36	11
			STREET, ST. STREET, ST.	-		-		Control of the Person of the P		-	STATE OF THE PARTY OF	-	-

	Total number of examinations	14,570	360	330	2,380	1,930	2,890	2,050	1,430	510	470	2,210	10
Persons in prisons,	number with respiratory tuberculosis	101	1		3	60	14	111	19	16		16	1
	Rate	6.9	1	1	2.1	1.6	4.8	5.4	13.3	31.4		7.2	1
	Total number of examinations	439,710	12,770	3,540	31,070	37,450	104,870	100,180	77,050	28,260	18,590	25,810	120
General public	requiring treatment or close supervision	948	01	1	38	98	221	196	184	92	54	19	1
	Rate	2.2	×.0	1	7.1	5.7	7.7	0.7	4.7	3.3	6.7	9.7	ı
Persons residing in or	Fotal num	38,570	590	170	1,410	2,040	6,470	7,610	8,590	3,520	2,810	5,330	30
hospitals and mental	I requiring treatment or close supervision	108	1	Personal	-	4	16	24	28	6	6	17	I
institutions	Rate	5.00	parents .	and a second	2.0	2.0	2.5	3.2	3.3	2.6	3.2	3.2	1
	Total number of examinations	1,933,320	90,480	67,310	233,240		407,430	381,410	313,210	111,810	69,780	57,320	720
All groups	number with respiratory tuberculosis requiring treatment or close supervision	4,033	79	40	284	382	813	754	805	406	234	236	1
	Rate	2.1	6.0	9.0	1.2	_	2.0	2.0	5.6	3.6	3.4	4.1	-

* Cases known to be tuberculous before this examination are excluded from this tabulation.

Table LXIII. Numbers of examinations made among females and cases of respiratory tuberculosis* requiring treatment or close clinic supervision observed by mass radiography units, distinguishing age and category of person examined. Rates per 1,000 examinations, 1957, England and Wales

(The total numbers of examinations have been derived from a 10 per cent sample of record cards)

							Females	es			ı		
Category of persons examined							Age-groups	sdr					
		All	Under 14	14	15-	20-	25-	35-	45-	55-	-09	65 and over	Not
Out-patients and in-	Total number of examinations	9,910	140	80	550	940	1,720	2,030	2,100	098	610	880	1
		1.1	11	[]	1.8	11	1.7	0.5	1.4	11	1.6	2.3	11
H.M. Forces recruits	Total number of examinations	50	1		30		10		10	1	1		
		11	11	11	[]	[]		11	0 1	11	11	11	11
Persons referred hy	Total number of examinations	088'66	4,990	1,030	11,680	14,410	23,340	18,580	12,970	5,040	3,480	4,310	50
general practitioners	2	989	4.2	2.9	7.5	10.1	8.1	126	5.1	2.8	5.5	3.0	20.0
School children	Total number of examinations	165,320	61,930	57,430	45,950		1			1	1	1	10
(School groups)	E	0.5	0.5	0.5	0.5		11	11	11	11	11	11	11
Contacts	Total number of examinations	27,990	8,340	2,310	3,940	1,710	3,400	3,700	2,870	092	460	470	30
		2.7	1.8	1.3	2.3	2.3	6.5	3.2	1.7	1.3	2.2	6.4	1.1
Persons covered by	Total number of examinations	5,210	120	10	089	530	870	1,050	1,210	440	130	160	10
special surveys	requiring treatment or close supervision Rate	9.0	11	11	11	1.9	1.1	1.0	11	11	11	11	11
Persons in factories/	Total number of examinations	088,009	1	1	146,250	125,070	115,060	100,490	81,820	22,480	7,270	2,150	290
offices (General surveys)	requiring treatment or close supervision Rate	1.1	11	11	1.3	1.5	151	6.0	9.0	0.2	1.07	0.5	[[

	Total number of examinations	2,500	100	40	280	100	100	140	140	120	100	1,380	1
Borstals, etc.	requiring treatment or close supervision Rate	1.2	11	11	11		11	7.1	14.3	11	11	11	11
Successive Supplier	Total number of examinations	573,360	12,740	3,670	52,760	60,110	129,210	127,040	100,770	35,910	24,390	26,670	06
volunteers	requiring treatment or close supervision Rate	1.4	0.5	0.5	1.7	109	1.9	175	1.0	0.6	1.0	0.9	11
A section of the sect	Total number of examinations	57,430	10	1	5,280	19,130	26,420	6,400	140	1	1	I	50
Ante-natal cases	requiring treatment or close supervision Rate	1.5	-	11	1.3	1.23	1.8	1.1	11	11	11	11	20.0
Persons residing in or	Total number of examinations	38,750	380	80	1,210	1,800	4,380	6,050	7,790	4,120	3,500	9,200	240
hospitals and mental institutions	requiring	1.3	11	11	3.3	1.1	2.5	2.5	0.6	1.0	0.3	8.0	1 1
A II constant	Total number of examinations	1,581,280	88,750	64,650	268,610	223,800	304,510	265,480	209,820	69,730	39,940	45,220	770
All groups	requiring treatment or close supervision Rate	2,448	0.8	36	1.5	2.1	2.2	1.6	228	0.6	1.4	1.1	2.6

* Cases known to be tuberculous before this examination are excluded from this tabulation.

CANCER

The deaths assigned to cancer during 1957 numbered 94,017—50,056 of males and 43,961 of females. For each sex these numbers are the highest yet recorded.

Of these, 82,878 were described as carcinoma, 1,308 as glioma, 1,898 as sarcoma; 4,891 were classed with the reticuloses and 3,042 as cancer undefined.

Table LXIV. Deaths from cancer by sex and age according to histological type, and death rates per million living, 1957, England and Wales

13	All ages	0-	15-	35-	45-	55-	65 and over
			Num	ber of de	eaths		Company was made data to the transfer
$\begin{array}{c} \text{All malignant neoplasms} \\ \text{(140-205)} \end{array} \left. \left\{ \begin{matrix} \mathbf{M} \\ \mathbf{F} \end{matrix} \right. \right. \right.$	50,056 43,961	396 294	861 698	1,669 2,237	6,404 5,935	13,452 9,758	27,274 25,039
Carcinoma $$ ${M \choose F}$	44,008 38,870	16 23	297 379	1,170 1,836	5,417 5,161	11,961 8,631	25,147 22,840
Glioma $ \begin{Bmatrix} M \\ F \end{Bmatrix}$	740 568	47 38	81 43	108 80	198 147	216 181	90 79
Sarcoma $ \begin{Bmatrix} M \\ F \end{Bmatrix}$	904 994	87 54	132 89	86 89	140 163	180 213	279 386
Reticuloses $ \begin{Bmatrix} M \\ F \end{Bmatrix}$	2,727 2,164	233 171	336 165	259 169	432 278	587 472	880 909
Undefined $\dots \left\{ egin{array}{ll} M \\ F \end{array} \right.$	1,677 1,365	13 8	15 22	46 63	217 186	508 261	878 825
	·	Death	rates pe	r million	persons	living	
All malignant neoplasms (140-205)	2,094	67	134	615	1,922	4,639	9,934
Carcinoma	1,846	4	- 58	473	1,648	4,116	9,113
Glioma	29	8	. 11	30	54	. 79	32
Sarcoma	42	14	19	28	47	79	126
Reticuloses	109	39	43	67	111	212	340
Undefined	68	2	3	17	63	154	323

The proportion of carcinomata was the same in each sex, and there was very little difference among the gliomata, but a slightly higher proportion of sarcomata was recorded in women and a higher proportion of the reticuloses in men (Table LXIV, above). The following table compares the proportions recorded in 1957 with those in 1950. Little change can be noted, though the proportion classified as reticuloses has risen by about one per cent in each sex.

	19.	50 /	1	957
	Male	Female	Male	Female
All cancer deaths	43,570	41,700	50,056	43,961
		Percentage of	of all cancer	
Carcinoma	88 1·3 2·6 4·5 3·4	90 1·0 2·3 3·6 3·4	88 1·5 1·8 5·4 3·4	88 1·3 2·3 4·9 3·1

The death rate from all types of cancer increases with age, but at all ages the rate among the carcinomata exceeds by many times that of any of the three remaining groups. The death rate from gliomata varies least with age, rising to a peak between 55 and 64 years and later falling. Under the age of 15 years the reticuloses are the most frequent cause of death, followed by sarcoma, glioma, and carcinoma, in that order, but in all subsequent age-groups deaths from carcinoma exceed those from all other groups, with deaths from the reticuloses taking second place.

The relative importance of cancer as a cause of death at various ages

The number and proportion of deaths due to cancer at different ages are shown in Table LXV (page 112). The cancer deaths are further divided into five main site groups, and the percentage of cancer deaths to deaths from all causes at different ages given for each of these site groups. The table is illustrated graphically in Diagram 5 (page 117), but here cancer of the buccal cavity and pharynx, which at all ages accounts for but a small proportion of the total cancer, has been combined with the residual group "other sites".

Table LXV. Deaths from cancer at various sites: (a) numbers, and (b) as a percentage of deaths from all causes, by sex and age, 1957, England and Wales

85 and over	19,502	1,535	89	3.9	155	405	37
75-	70,500	10,061	399	4,959	1,766	2,256	301
-69	75,384	15,678	437	6,456	5,388	2,274	542
55-	50,486	13,452 26.6	216	4,495	6,383	1,078	587
45-	23,635	6,404	0.3	2,079	2,958	379	432
35-	Males 7,807 100	1,669	24 0.3	511	553	107	3.3
25-	3,623	561	0.1	132	65	53	189
15-	2,838	300	0.5	19 0.7	13	31	147
-5	1,638	226 13·8	0.3	0.5	0.1	0.0	8.5
-0	10,994	170	0.0	0.0	0.0	0.2	94 0.9
All ages	266,407		1,259				
Cause of death (and I.S.C. Nos.)	All causes $\begin{pmatrix} (a) \\ (b) \end{pmatrix}$	All maligant neoplasms $\begin{cases} (a) \\ (140-205) \end{cases}$	Buccal cavity and pharynx $\begin{cases} (a) \\ (140-148) \end{cases}$	Digestive organs and $\int (a)$ peritoneum (150–159)	Respiratory system $\begin{cases} (a) \\ (160-165) \end{cases}$	Breast and genito-urinary $\begin{cases} (a) \\ (b) \end{cases}$	Lymphatic and haemato- $\{(a)\}$ poietic tissues (200–205)

	36,646	2,443	47	1,405	79	717	43 0~1
	84,499 100	10,315	166	5,651	553 0.7	3,074	324 0.4
	62,110	12,281	193 0·3	5,641	877	4,338	542 0.9
	30,742	9,758	148 0·5	3,321	833	4,362	472
1	14,915	5,935	73	1,428	470	3,247	278
Females	6,182	2,237	30	7.2	152 2.5	1,237	169
	2,624	540 20·6	0.3	3.2	30	230	105
6	1,371	11.5		0.8	9.0	23	4.4
700	1,094	160	0.3	0.3		13	8.1
0000	3,280	134	0.0	0.1		0.1	1.0
	100	•			3,002	1.00	1
	All causes $\begin{pmatrix} a \\ b \end{pmatrix}$	All maligant neoplasms $\begin{cases} (a) \\ (140-205) \end{cases}$	Buccal cavity and pharynx $\{(a) (140-148)\}$	Digestive organs and $\begin{cases} (a) \\ b \end{cases}$ peritoneum (150–159)	Respiratory system $\begin{cases} (a) \\ (160-165) \end{cases}$	Breast and genito-urinary $\{(a)$ organs (170–181)	Lymphatic and haemato- $\int (a)$ poietic tissues (200–205) $\int (b)$

Table LXVI. Deaths from cancer at various sites: (a) numbers, and (b) as a percentage of all cancer deaths, by sex and age, 1957, England and Wales

	75 and over	12,758	12,211	0.1	0.5	0.5	0.4	0.2	385	2,415	2,304	860	170	248	623
	-69-	12,281	11,498	0.0	0.4	0.7	93	0.2	306	1,966	1,592 13·0	718 5·8	178	255	552
	55-	9,758	8,989	11	0.2	33	8.0	0.1	166	1,079	976	4.3	110	149	354
Females	45-	5,935	5,498 92·6	11	0.2	0.1	8.0	0.1	1.5	396	449	3.6	0.9	0.8	140
	35-	2,237	2,109	11	0.3	0.0	0.8	0.0	0.7	138 6.2	132 5.9	3.2	1.0	0.6	2.1
	25-	540	514 95·2	9	0.4	11	0.7	0.5	0.5	33	4.3	2.2	0.9	0.4	0.7
	-0	452	446 98·7	11	11	0.2	0.7	1 1	11	0.7	4.6.	11	1.1	11	0.5
	All	43,961	41,265	0.0	158	135	303	0.1	963	6,030	5,480	2,291	543	715	1,722
	75 and over	11,596	9,912 85·5	50	143	156	113	41 0·4	3.8	2,081 17·9	1,401	1,069	165	9.5	3.9
	-69-	15,678	10,568 67.4	0.1	121 0·8	114	154	0.1	2.9	2,652	1,232	1,079	220	124 0.8	658
	55-	13,452	7,297	0.1	54 0.4	0.5	65	0.1	270	2,047	5.4	620	182	104	3.7
Males	45-	6,404	3,529 55·1	11	0.2	0.3	39	0.0	123	986	346	260	51 0.8	0.7	3.7
	35-	1,669	1,140	0.1	0.5	9-0	0.0	0.1	4.1	202 12·1	123	3.7	1.7	0.5	2.9
	25-	561 100	499 88·9	П	0.2	0.2	0.4	11	0.7	8.9	6.2	3.9	0.5	0.5	1.6
	9	696	682 98·0	1 1		0.1	1.6	0.1	0.1	0:4	6.0	9.0	0.3	0.1	0.1
	All	50,056	33,627	83	336	365	394	75	1,312	8,021	3,872	3,116	652	377	1,893
	rn fos.)	(a) (b) (c)	140- 164, {(b)	{ (a) (b) (b) (c) (c) (c) (c) (c) (c) (c) (c) (c) (c	(a) (b)	$(143, \{a \\ (b) \}$	(B)	<u>(a)</u>	(9)	$ \operatorname{num} \left\{ \begin{pmatrix} a \\ (b) \end{pmatrix} \right\} $	ctum { (a) 52·0, { (b)	(e) (e) (e)	(a) (b)	$duct \begin{cases} (a) \\ (b) \end{cases}$	(a) (b)
	Cause or death (and I.S.C. Nos.)	All sites (140–205) $\left\{ \begin{pmatrix} a \\ b \end{pmatrix} \right\}$ 50,056	All cancer less lung, bronch and pleura (140- $f(a)$) 33,627 161, 162, pt., 164, $\{(b)\}$ 67.2 165 pt., 170-205)	Lip (140)	Tongue (141)	Mouth and tonsil (143, $\begin{cases} (a) \\ 144, 145 \cdot 1 \end{cases}$	Pharynx (145.0, 146-148)	Jaw (196·1)	Oesophagus (150)	Stomach and duodenum $\begin{cases} (a) \\ (151, 152 \cdot 1) \end{cases}$	Intestine, except rectum \((a) \) and duodenum (152.0, \((b) \) 153)	Rectum (154)	Liver (155·1, 156)	Gallbladder and (155.0)	Pancreas (157)

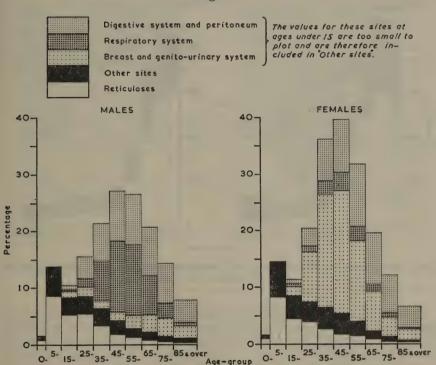
43	0.3	547 4·3	0.1	П	11	11	764	382	199	1,950	114	376	198 1·6	11	91	8.0
0.5	56 0·5	783	0.0	11	11	1 [1,028	5.3	156	2,068	134	294	116	11	68	0.7
0.7	47	769	0.1	11	11	11	1,046	862	6.0	2,102	114	145	59		0.5	0.6
0.7	0.4	437	0.1	11	1 1		676	11.6	0.7	1,760	33	946	0.9	11	0.5	0.4
0.3	0.5	128	9.0	11		11	333	235	0.6	631	0.5	0.5	2.1	11	14 0.6	0.5
6.0	0.45	26 4·8	0.5		11	11	16.1	37	0.2	96	1.7		3.5	11	1.3	11
1.3	11	1.3	11		[]	11	1.1	3.3	0.2	1.3	18	0.4	11 2.4	[35	0.5
230	183	2,696	36	11			3,939	2,871	498	8,613	433	875 2.0	501	11	314	264 0.6
0.2	201	1,684	0.1	1,788	0.11	45	11	11		0.2	6.0	0.9	179	0.1	9.0	0.2
38	231	5,110	0.1	1,297	0.1	30	11			24	197	692	123	0.1	910	37
43 0.3	178	6,155	0.22	339	1.0	13	11		11	22 0.2	217	3.4	73	0.1	95	0.1
28 0.4	6.0	2,875	13	43	20	14 0.2	11			0.1	130	164 2.6	41	0.0	48	0.1
13	0.0	529 31·7	0.5	0.3	38	0.1	11	1		0.1	26	35	1.3	1 1	28 1·7	0.1
84.	0.5	62	11	0.2	7.3	11	11	11		11	1.2	0.7	3.4	11	15 2.7	0.5
1.1	0.1	14 2.0	0.1	0.3	3.7	11	1 1	11		11	28 4·0	1.0	9.0	11	6.3	
163	684	16,429 32·8	57	3,475	175	103				70	704	2,052	461	34	390	89
(e) (e) (e)	$(161, \{ a \\ (b) \}$	3, {(a) {(b) }	<u>@</u>	(a)	; (6)	(a) (b)	 (6) (6)	tube $\{a \\ b \}$	6.1, {(a) (b) (b)	(e)	(a) (b)	0 {(6)		(e) (e) (e)	(160, {(a) (b)	<u>@</u>
Peritoneum (158)	Larynx, trachea (1 162·1, 165·1)	Lung, bronchus and pieura (162-2, 162-3, f(a) 16,429 163, 165-2, 165-3)	Mediastinum (164)	Prostate (177)	Testis (178)	Penis (179·2)	Uterus (171–174)	Ovary and Fallopian tube $\begin{cases} (a) \\ (175.1, 175.2) \end{cases}$	Vagina, vulva (176-1, $\begin{cases} (a) \\ 176-2 \end{cases}$	Breast (170)	Kidney (180)	Bladder, urethra (181) $\begin{cases} (a) \\ (b) \end{cases}$	Skin (190, 191)	Scrotum (179·1)	Bones, except jaw (160, $\begin{cases} (a) \\ 196.0, 196.2 \end{cases}$	Thyroid gland (194)

Table LXVI—continued

		75 and	30	195	33 0·3
		-59	53	236	175
		55-	63	193	336
	Females	45-	45	142	257
		35-	37	100	138
		25-	38	56 10.4	60
		9	4.9	171	126 27·9
		All	288	1,093	1,125
I		75 and over	36	210	27
I		-69-	70	271	167
		-55-	108	249	391
ı	Males	45-	116	149	375 5·9
		35-	101	5.8	175 10·5
		25-	85 15·2	12.8	88 15·7
		-0	89.6	253	146 21·0
		All	584	1,301	1,369
	Cause of death	(and I.S.C. Nos.)	odgkin's disease (201) $\left\{ \begin{pmatrix} a \\ b \end{pmatrix} \right\}$	eukaemia and aleu- {(a) kaemia (204)	eoplasms (malignant, benign and unspecified) of brain and central nervous system (193, f(a) 223, 237)

In both sexes the pattern is roughly the same. Under the age of 5 years only about one and one-half per cent of all deaths are due to cancer, but between 5 and 15 the proportion rises to nearly 15 per cent, falling again in the age-group 15–24 to just over 10 per cent. Thereafter the proportion rises in each decade to a maximum in the age-group 45–54, when 27 per cent of male and nearly 40 per cent of female deaths are attributed to cancer. In subsequent age-groups the proportionate cancer mortality falls until, at 85 years and upwards, under 8 per cent of male and 7 per cent of female deaths are ascribed to cancer.

Diagram 5

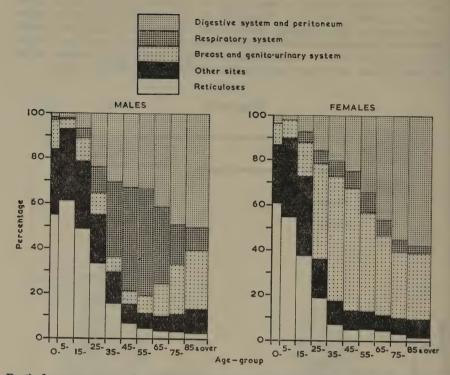


Deaths from cancer at certain sites expressed as percentages of deaths from all causes, by sex and age, 1957, England and Wales

Between the ages of 25 and 64 a greater proportion of female than male deaths is due to cancer; before this period there is little difference between the sexes, but from 65 years onwards cancer becomes a more frequent cause of death in men than in women. At these later ages and in both sexes the most frequent site of cancer is in the digestive tract, but in middle life cancer of the breast and genito-urinary organs predominates in women, and cancer of the respiratory system in men.

At the present time cancer of the digestive organs accounts in both sexes and in each age-group between 35 and 84 for between about 6 and 10 per cent of all deaths. Except among those aged 75 and over the proportion due to digestive cancer is greater in women than in men, but in both sexes the highest proportion is found in the age-group 55–64.

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Deaths from cancer at certain sites expressed as percentages of all deaths from cancer, by sex and age, 1957, England and Wales

Respiratory cancer in men is most prominent as a cause of death between the ages of 35 and 74, being at a maximum between 45 and 64, when it is responsible for rather more than 12 per cent of all deaths, while between 35 and 44, and 65 and 74, it causes about 7 per cent. In women cancer of the breast and genitourinary system is the most frequent cause of death from cancer between the ages of 25 and 64, being at its maximum between the ages of 35 and 54, when more than 20 per cent of all female deaths are ascribed to this cause.

The relative importance of various sites of cancer at different ages

A more detailed analysis by individual site, showing the proportion of deaths at each individual site to the total deaths from cancer in different age-groups, is given in Table LXVI (page 114). In Diagram 6 (above) this is shown graphically, but deaths are grouped as in the table below, which is constructed in the same manner as Table LXV. The diagram shows how the proportion of deaths assigned to cancer of the digestive system steadily increases with age, until among those aged 75 and over it accounts for one-half of all cancer. The reticuloses on the other hand, which cause about one-half of all cancer deaths below the age of 15 years, steadily diminish in relative importance in each subsequent age-group, being the cause of less than 5 per cent of cancer deaths at 55–64 years and falling to 2 per cent in the oldest age-groups.

Cause of death	All ages	0-	5	15-	25-	35-	45-	55-	65-	75-	85 and over
				Mal	es						
All malignant neo- $\begin{cases} (a) \\ \text{plasms } (140-205) \end{cases}$ $\begin{cases} (b) \\ \end{cases}$	50,056 100	170 100	226	300 100	561	1,669	6,404	13,452	15,678	10,061	1,535
Digestive organs and $\{(a)\}$ peritoneum (150– $\{(b)\}$ 159)	19,428 38·8	1.8	1.8	19 6·3	132 23·5	511 30·6	2,079 32·5	4,495 33·4	6,456 41·2	4,959 49·3	770 50·2
Respiratory system $\begin{cases} (a) \\ (160-165) \end{cases}$	17,284 34·5	1.2	0.4	13 4·3	65 11·6	553 33·1	2,958 46·2	6,383 47·5	5,388 34·4	1,766 17·6	155 10·1
Breast and genito- {(a) urinary organs {(b) (170-181)	6,615 13·2	22 12·9	10 4·4	31 10·3	53 9·4	107 6·4	379 5·9	1,078 8·0	2,274 14·5	2,256 22·4	405 26·4
Lymphatic and $\{(a)\}$ haematopoietic $\{(b)\}$ tissues (200–205)	2,727 5·4	94 55·3	139 61·5	147 49·0	189 33·7	259 15·5	432 6·7	587 4·4	542 3·5	301 3·0	37 2·4
Other and unspeci- {(a) fied sites (rem. {(b) 140-205)	4,002 8·0	49 28·8	72 31·9	90 30·0	122 21·7	239 14·3	556 8·7	909 6·8	1,018 6·5	779 7·7	168 10·9
				Femal	es			-		1	1
All malignant neo- $\{(a)$ plasms (140–205) $\{(b)$	43,961 100	134 100	160 100	158	540 100	2,237	5,935	9,758 100	12,281 100	10,315	2,443
Digestive organs and {(a) peritoneum (150-{(b) 159)	17,998 40·9	3.7	1.9	11 7·0	85 15·7	448 20·0	1,428 24·1	3,321 34·0	5,641 45·9	5,651 54·8	1,405 57·5
Respiratory system $\{(a) \\ (160-165) \}$	3,002 6·8	_	_	5·1	30 5·6	152 6·8	470 7·9	833 8·5	877 7·1	553 5·4	79 3·2
Breast and genito- $\{(a)\}$ organs $\{(b)\}$	17,253 39·2	12 9·0	13 8·1	23 14·6	230 42·6	1,237 55·3	3,247 54·7	4,362 44·7	4,338 35·3	3,074 29·8	717 29·3
Lymphatic and $\{(a)$ haematopoietic $\{(b)$ tissues $(200-205)$	2,164 4·9	82 61·2	89 55·6	60 38·0	105 19·4	169 7·6	278 4·7	472 4·8	542 4·4	324 3·1	43 1·8
Other and unspeci- $\{(a)\}$ fied sites (rem. $\{(b)\}$ 140-205).	3,544 8·1	35 26·1	55 34·4	56 35·4	90 16·7	231 10·3	512 8·6	770 7·9	883 7·2	713 6·9	199 8·1

In men cancer of the lung and bronchus accounts for nearly one-third of all deaths from cancer, causing nearly 30 per cent of cancer deaths between the ages of 35 and 74, and 45 per cent between the ages of 45 and 64. Cancer of the prostate, to which are ascribed about 7 per cent of all male cancer deaths, is responsible for more than 8 per cent between the ages of 65 and 74, but more than 15 per cent among those aged 75 and over.

In women the highest proportion of deaths assigned to a single site is to cancer of the breast, which causes about 20 per cent of female cancer deaths. Nearly 18 per cent of female deaths in the age-group 25–34, and 30 per cent between the ages 35 and 54 are due to breast cancer, but at later ages the proportion diminishes to 15 per cent in those aged 75 and over. Cancer of the uterus, to which is assigned 9 per cent of all female cancer, is a more important site in early adult than in later life; between the ages of 25 and 34, 16 per cent of cancers occur at this site, but the proportion falls to 6 per cent in the 75 and over group. Cancer of the lung and bronchus now accounts for just over 6 per cent of female cancer deaths, the proportion being highest, nearly 8 per cent, between the ages of 45 and 64.

In both sexes cancer of the stomach causes an increasing proportion of cancer deaths with increasing age. Sixteen per cent of all male cancer deaths and nearly 14 per cent of female cancer deaths are assigned to this cause, but from 75 years and upwards just under 18 per cent of male and 19 per cent of female

deaths are so assigned. The distribution of deaths from cancer of the rectum follows a similar pattern, accounting for $6 \cdot 2$ per cent of male, and $5 \cdot 2$ per cent of female, cancer deaths at all ages, but $9 \cdot 2$ per cent and $6 \cdot 7$ per cent in the oldest age-group. Cancer of the intestine forms a larger proportion of female cancer deaths ($12 \cdot 5$ per cent) than of male ($7 \cdot 7$ per cent), the proportion rising to $18 \cdot 1$ per cent of female, and $12 \cdot 1$ per cent of male, cancer deaths among those aged 75 and over.

For any given period of time a change in mortality from a disease or group of diseases can for convenience be expressed as a single figure in one of many ways. The crude death rates, that is, the number of deaths divided by the total population, can be compared, or comparison by various methods of standardisation can be used to make allowances for any change that may have occurred in the age-structure of the population. Such single figure comparisons, however carefully constructed, conceal much valuable information. If, for example, an advance in therapy could postpone death from cancer for an appreciable period of time, the result of such an improvement might not be reflected in either the crude or standardised death rate, though the average age at death would be considerably advanced and age-specific death rates would show a decrease at younger, and an increase at older, ages. A decreasing influence of any carcinogenic factor might be expected to show itself first in the incidence of cancer at younger ages, and since the incidence of cancer of most sites increases with age, this effect could be masked by the continued high mortality at older ages. It is thus important to examine changes in mortality as they occur at different age-groups and, to facilitate this, Table LXVII (page 121) has been constructed. In it the death rates in the various age-groups in 1957 are expressed as a percentage of the average death rates of those age-groups during the years 1936-39. The "all ages" figure is a standardised mortality ratio calculated by applying the 1936-39 rates to the 1957 population, separately for each age-group. The sum of the products of each age-group gives the expected number of deaths under the conditions of 1936-39, which, divided into the total deaths in 1957 and expressed as a percentage, gives the figure in the "all ages" column.

Table LXVII. All causes and cancer at various sites: Deaths as a percentage of expected deaths based on 1936-39 experience, by sex and age, and mean age at death, 1957, England and Wales

Cause of death				2	Males								Females					
(and I.S.C. Nos.)	All	9	25-	35-	45-	55-	-59	75 and over	Mean age at death	All	-0	25-	35-	45-	-52-	-69-	75 and over	Mean age at death
All causes	81	40	41	53	11	93	97	68	65.3	11	35	33	51	63	70	75	82	70.0
All cancer (140-205)	119	121	106	106	122	127	115	119	65.1	91	108	86	93	68	68	98	86	69.5
All cancer less lung, bronchus,																		
pt., 164, 165 pt., 170-205)	88	122	108	06	84	78	82	105	66.3	87	108	96	16	84	85	83	95	0.99
Lip (140)	25	1	1	33	1	18	23	30	75.9	26	1	1	1	1	I	12	35	80.8
Tongue (141)	29	-		44	15	17	27	48	71.8	84	1	1	100	19	52	77	124	69.4
Mouth and tonsil (143, 144, 145.1)	52	1	33	19	36	37	41	06	71.4	105	1	1	17	46	132	79	156	71.4
Pharynx (145.0, 146-148)	72	138	29	83	103	45	70	92	67.1	118	100	19	190	102	100	129	146	63.4
Jaw (196·1)	16	12	and the same of th	00	7	00	14	33	73.4	23	1	33	10	10	21	24	32	70.5
Oesophagus (150)	63	I	133	11	77	45	57	87	69 · 1	95	1	17	52	74	99	95	136	9.02
Stomach and duodenum (151, 152·1)	80	38	78	57	74	83	00	112	8.99	73	38	63	- 19	54	64	89	16	9.02
Intestine, except rectum and duodenum (152.0, 153)	69	75	81	82	11	59	62	84	69.1	7.1	50	42	64	69	70	64	79	70.7
Rectum (154)	71	20	19	58	19	57	99	93	69.2	77	1	40	70	89	19	73	94	2.69
Liver (155·1, 156)	48	25	33	85	32	56	47	46	8.99	34	62	99	55	41	36	33	29	67.5
Gallbiadder and ducts (155.0)	103	1	33	150	121	132	97	83	6.99	98	1	1	140	92	79	87	91	6.69
Pancreas (157)	136	I	100	102	124	133	146	140	9.99	121	12	19	185	102	108	113	146	2.69
Peritoneum (158)	112	50	68	81	127	126	119	156	58.4	100	75	83	38	111	06	110	130	62.8
Larynx, trachea (161, 162·1, 165·1)	19	1	100	53	53	53	56	82	68.3	72	I	1	75	59	64	80	78	65.2
Lung, bronchus, and pleura (162.2, 162.3, 163, 165.2, 165.3)	432	80	68	171	272	471	651	829	62.7	229	75	144	991	218	228	221	301	64.2

Table LXVII—continued

Cause of death					Males								H	Females				
(and I.S.C. Nos.)	All	-0	25-	35-	45-	55-	-59	75 and over	Mean age at death	All	-0	25-	35-	45-	55-	65-	75 and over	Mean age at death
Mediastinum (164)	18	12	1	21	22	22	11	22	60.5	22	1	33	80	20	15	12	32	62.6
Prostate (177)	132	19	1	42	52	77	120	176	74.6	1	1	1	1	I	1	1	1	1
Testis (178)	16	162	95	103	91	83	80	73	43.3	1	1	1	ı	1	İ	1	I	1
Penis (179·2)	46	1	1	33	64	29	45	54	70.5		1	1	1	1	1		1	1
Uterus (171-174)	1]	1	1	1	1	1	1	1	70	62	136	19	53	69	74	68	62.7
Ovary and Fallopian tube (175-1, 175-2)		ı	1	1	1	-	1	1	1	130	99	92	119	131	140	130	134	60.4
Vagina, vulva (176-1, 176-2)	1		1	1	1	1	1	1	1	80	20	33	81	73	78	75	68	70.5
Breast (170)	92	1	I	33	99	110	109	82	9.19	95	200	113	101	101	06	93	95	63.5
Kidney (180)	151	80	78	70	133	166	176	215	2.09	109	58	150	69	63	123	113	142	64.8
Bladder, urethra (181)	153	350	19	125	113	139	151	188	69.2	131	1	Í	120	94	100	122	170	71.8
Skin (190, 191)	55	50	317	116	72	59	54	45	2.19	73	138	211	247	86	69	7.1	99	66.3
Scrotum (179·1)	48	1	1	I	33	44	56	99	6.69	1	1	1	1	1	1	1	1	1
Bones, except jaw (160, 196.0, 196.2)	69	19	50	09	51	74	74	96	57.4	63	74	33	36	43	41	72	101	61.4
Thyroid gland (194)	102	ı	1	33	47	72	148	167	66.1	95	-1	1	40	73	84	06	133	8.69
Hodgkin's disease (201)	153	94	173	180	161	144	175	200	47.7	122	56	158	116	136	154	126	115	52.5
Leukaemia and aleukaemia (204)	215	151	167	164	169	211	268	750	51.6	201	146	144	192	- 161	186	251	382	53.2
Neoplasms (malignant, benign, and unspecified) of brain and central nervous system (193, 223, 237)	130	96	97	102	125	163	500	123	49 · 1	119	95	82	93	112	157	165	11	50.3
														-		The same of the same of		-

The "all ages" mortality ratio as calculated in Table LXVII has fallen for all causes of death combined in both sexes, but to a greater degree in the case of women than men. For cancer as a whole the ratio has risen for men and fallen for women, but with cancer of the lung and bronchus excluded a comparable fall in the ratio has occurred in both sexes.

Apart from cancer of the lung, which registers the greatest increase in deaths in both sexes, the "all ages" mortality ratio since 1936-39 has increased at the following sites:

Men: Leukaemia, Hodgkin's disease, bladder and urethra, kidney, pancreas, and prostate.

Women: Leukaemia, bladder and urethra, ovary and Fallopian tube, Hodgkin's disease, pancreas, pharynx, and kidney.

With the exception of Hodgkin's disease and cancer of the kidney, each of these sites contributes at the present time more than a total of 1,000 deaths annually to the total cancer mortality.

The "all ages" cancer mortality ratio has fallen more than 20 per cent at the following sites:

Men: Jaw, lip, tongue, penis, scrotum, mouth and tonsil, skin, larynx, oesophagus, bones, intestine, rectum, and pharynx.

Women: Jaw, lip, bones, uterus, intestine, larynx, stomach and duodenum, skin, and rectum.

Of these sites only the following were responsible for more than a thousand cancer deaths in 1957:

Men: Oesophagus, intestine, and rectum.

Women: Stomach and duodenum, intestine, rectum, and uterus.

Cancer of the liver and mediastinum also shows a considerable decrease in the mortality ratio, but here the fall can probably in part be accounted for by more accurate certification and a transfer from liver to the true primary site, and from mediastinum to lung.

Considering only mortality in adult life—from 25 years onwards—sites can be broadly classified into five groups according to the apparent changes in mortality at different age-groups. Mortality ratios, when based on very small numbers of deaths in the younger age-groups, have been omitted from the general pattern.

I. Where death rates have fallen at all adult ages.

Males
Lip
Lip
Tongue
Mouth and tonsil
Pharynx
Bone (except jaw)
Intestine and rectum
Larynx and trachea
Larynx and trachea
Scrotum

Females
Lip
Stomach and duodenum
Intestine and rectum
Larynx and trachea
Jaw
Larynx and trachea

II. Sites where rates have fallen at all older ages but where a rise has been recorded between 25 and 44 years.

Males Females
Oesophagus Breast
*Skin Uterus
Testis *Skin
Gall bladder and ducts

^{*}At these sites rates were small and the increases recorded did not exceed two per million at risk.

III. Sites where rates have fallen at adult ages below 65 but have risen at older ages.

Males

Females

Prostate Thyroid gland

Bladder and urethra

IV. Sites where rates have fallen below 75 years but risen at older ages.

Males Females

Stomach and duodenum Tongue

Mouth and tonsil Oesophagus Bone (except jaw) Thyroid gland

V. Sites where rates have risen at all or nearly all adult ages.

Males Females

Pancreas Pharynx
Lung and bronchus Pancreas

Kidney Lung and bronchus

Bladder and urethra Ovary and Fallopian tube Hodgkin's disease Kidney

Leukaemia Hodgkin's disease Leukaemia

Cancer of the lung and bronchus

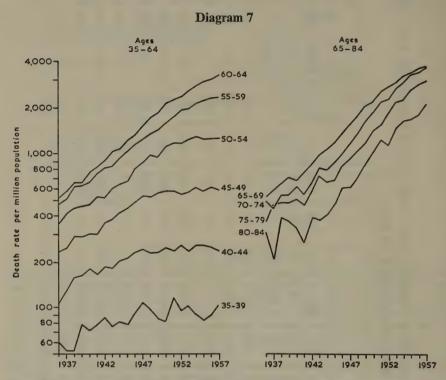
In both sexes the largest recorded increase in mortality since 1936–39 is from cancer of the lung and bronchus. The "all ages" mortality ratio shows that the number of male deaths in 1957 was more than four times, and the number of female deaths more than double, the number expected if the 1936–39 rates had continued. In men the ratio increases from the age-group 35–44, where it is less than double the earlier rate, to the age-group 65 and over, where it is more than six times the 1936–39 rate. In women this age gradient is less distinct; between the ages of 45 and 74 the rates are a little more than twice, but from 75 years onwards three times, the earlier rates.

Table LXVIII (page 125) gives the male and female mortality rates by five-year age-groups for each year from 1950 to 1957. This table has some interesting features; firstly, that rates have risen in all age-groups from 50 years upwards but below that have remained relatively stable; and secondly, that above the age of 50 rates have increased more rapidly among the older men. Thus for the age-groups 55–59 and 60–64, the 1957 rates are about 50 per cent higher than the corresponding rates in 1950, while for the age-groups 70–74, 75–79, and 80–84 the rates have doubled, the increase in the age-group 65–69 being intermediate.

Table LXVIII. Cancer of lung and bronchus (L.S.C. Nos. 162, 163): Death rates per million living, by sex and age, 1950 to 1957, England and Wales

	1957	12	28	51	113	153	246	319	350	438	471	485	364
	1956	16	29	50	98	159	217	323	361	432	463	412	428
	1955	14	27	49	92	150	- 229	297	371	414	405	438	275
Females	1954	16	28	52	95	150	204	270	359	404	417	333	373
Fen	1953	18	26	53	00 00	129	191	285	346	381	462	385	263
	1952	II	25	54	83	134	208	304	334	356	462	391	324
	1951	15	30	48	78	123	188	256	336	372	384	406	271
	1950	12	29	54	75	142	190	239	319	368	378	299	241
	1957	29	103	236	589	1,262	2,333	3,226	3,668	3,646	2,949	2,071	1,384
	1956	39	96	249	616	1,245	2,301	3,031	3,570	3,344	2,811	1,798	1,288
	1955	33	84	256	584	1,236	2,221	2,929	3,352	3,255	2,579	1,672	1,000
Males	1954	38	92	257	809	1,299	2,116	2,761	3,191	2,741	2,210	1,616	838
Mg	1953	40	103	236	575	1,229	1,990	2,544	2,882	2,618	2,126	1,458	898
	1952	35	97	258	558	1,175	1,965	2,349	2,703	2,266	1,855	1,120	1,046
	1951	31	115	237	585	1,177	1,751	2,208	2,515	2,130	1,553	1,213	705
	1950	39	82	249	585	1,101	1,600	2,106	2,142	1,872	1,405	1,030	515
Age		30-	35	40-	45-	-09	55-	-09	-59	70-	75-	-08	85 and over

Diagram 7 (below) has been drawn to illustrate these points, and shows the annual mortality rate in men at five-year age-groups since 1936. The rates have been plotted on a logarithmic scale, the effect of which is that the degree of the slope of each line is directly proportional to the rate of increase in mortality.



Cancer of lung and bronchus—males: Death rates per million living, in five-year age-groups, 1936 to 1957, England and Wales

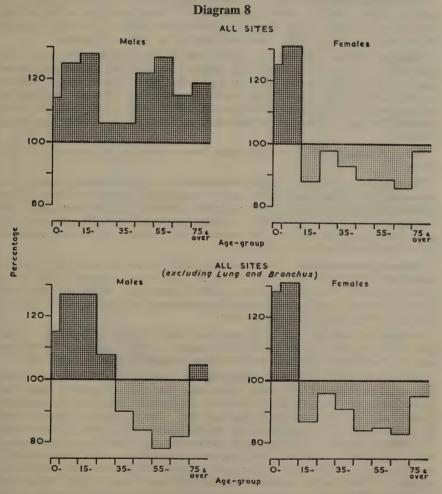
The rising mortality in the age-groups 40–44 and 45–49 appears to have ceased about 1947, and there is also a suggestion that among men aged 50–54 rates are becoming stabilised.

The rate of increase in mortality in the age-groups 55–59, 60–64, and 65–69 has, until the last four or five years, been remarkably constant. This is shown in the diagram by the almost straight lines which represent the rates at these age-groups. During the last five years the slope of each line has become less steep, indicating that at these age-groups mortality is not increasing as rapidly as heretofore. Moreover, the two lines representing the rates at age-groups 65–69 and 70–74 appear to be approaching each other, suggesting that if this present trend persists the peak of mortality will soon be transferred to the older age-group. Between 1936 and 1946 this peak was most often found in the age-group 60–64, whereas during the last 10 years it has invariably occurred in the 65–69 age-group. It appears unlikely that cancer of the lung will in the future show the same increases in mortality that have occurred during the past three or four decades, at least as far as men below 70 years of age are concerned, but it is not possible to make any prediction about men above that age.

Cancer of all sites

Compared with 1936–39, cancer mortality in 1957 had risen at all ages in males, but in females only among those below 25 years of age. Among children (under 15 years of age) the increase in both sexes is of similar magnitude, and is largely accounted for by the increased mortality from the leukaemias. From the age of 45 to 64 years the male cancer rate was in 1957 more than 20 per cent higher than in 1936–39, while the female rate was more than 10 per cent below. At age 65–74 the male rate showed a smaller increase and the female a greater fall, while for those aged 75 and over the male rate was nearly 20 per cent higher than, and the female 2 per cent below, the 1936–39 rate.

When cancer of the lung and bronchus is excluded from the analysis the picture is different (Diagram 8, below). Under the age of 35 the position is practically unchanged but between 35 and 74 years the male rates in 1957 are considerably below those of 1936–39, falling to 78 per cent in the 55–64 agegroup but rising to 105 per cent at 75 years and over. Exclusion of lung cancer



Cancer at all sites, and at all sites except lung and bronchus; Mortality expressed as a percentage of the 1936–39 experience, by sex and age, 1957, England and Wales

affects the female rates less, but between 45 and 74 years the 1957 rates are nearly 20 per cent lower, and 5 per cent lower at 75 and over. While it is possible that without the increased incidence of cancer of the lung many who died from that disease would have survived only to die from cancer at another site, yet it seems probable that, without that increase, male mortality from all forms of cancer might stand at an appreciably lower level than it did in 1936–39, at least for men between the ages of 45 and 74.

The decreased incidence at earlier ages and a static or increased rate among older people can be explained by the interplay of several factors.

Such a result could be due to a decrease in the force of malignancy which would be apparent first at younger ages, but only reach its full effect in older ages at a late period in time. Postponement of death, whether due to improved forms of treatment or earlier recognition of the disease in a more treatable form, would similarly affect the death rates. An analysis of the changes in mortality at individual sites may suggest which factors are predominant.

Lip, tongue, mouth and tonsil. Improvement in male mortality is seen at all ages but more especially under the age of 75. Female mortality, which at these sites is but a fraction of the male, has shown less change in cancer of tongue, and mouth and tonsil, while rates have risen in the oldest age-group.

Pharynx. Male mortality has fallen considerably between the ages of 55 and 74 but little beyond that age. In women there has been little change below the age of 65, but mortality has risen above that age. The mean age at death for men is nearly four years higher than that for women. It is possible that this is connected with postcricoid cancer and the Patterson Kelly syndrome, which are more frequent in women and occur at an earlier age than do other pharangeal cancers.

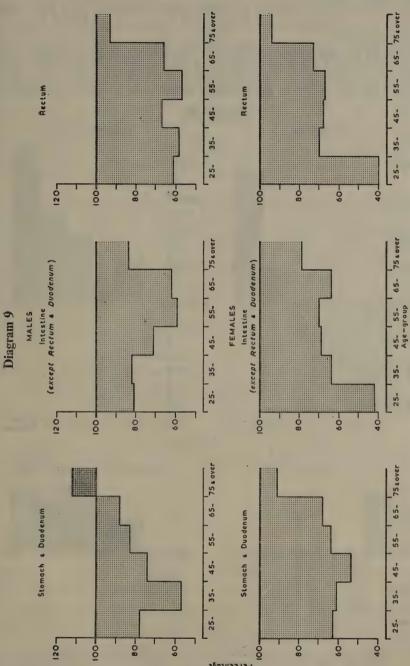
Jaw. A notable fall in mortality has been recorded at all ages and in both sexes.

Oesophagus. Mortality in men has declined at all significant age-groups, but proportionately least among those aged 75 and over. Among women a fall is recorded at early ages, while at 75 and over there has been an appreciable rise. Considering the low survival rate following treatment of oesophageal cancer, it is probable that the fall in male rates is the reflection of reduced incidence rather than improvement in therapy.

Stomach and duodenum. Under the age of 75, female mortality has fallen to about two-thirds of what it was in 1936–39, but above that age the fall is less than one-tenth. Male mortality has fallen to nearly one-half in the age-group 35–44 but rather less in each succeeding age-group, until among those aged 75 and over mortality has risen 12 per cent.

Intestine and rectum. In both men and women mortality has fallen at all ages but to a greater extent among those under 75 years of age. At both sites male mortality has fallen slightly more than female (Diagram 9, page 129).

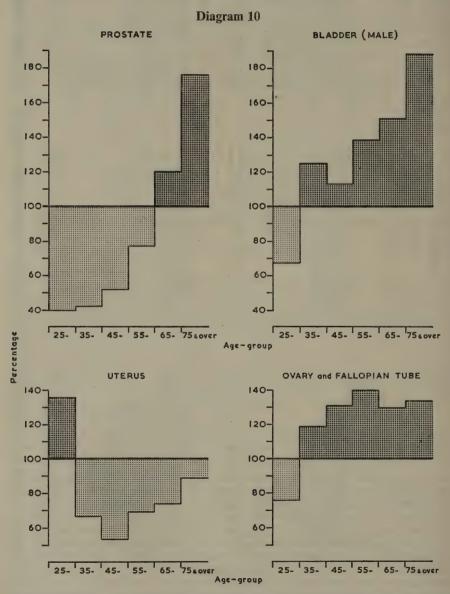
Liver, gallbladder and ducts, pancreas, and peritoneum. Changes at these sites must be regarded with some suspicion. The fall in mortality from liver cancer is probably due, at least in the main, to better certification and consequent transfer of deaths to their proper primary site. The incidence of cancer of the peritoneum, and to a lesser extent of the gallbladder and ducts, is so low that the changes recorded may be merely chance variations and not indications of any regular trend. Cancer of the pancreas, which shows an increased mortality over the age of 35 years in both sexes, is relatively uncommon and not easy of diagnosis. The regular increase in mortality over recent years refutes the possibility that this may be a chance variation, but the possibility that it may be largely due to more accurate diagnosis and certification remains.



Cancer at certain sites: Mortality expressed as a percentage of the 1936-39 experience, by sex and age, 1957, England and Wales

If all forms of cancer of the digestive system are included under one head, male mortality below the age of 75 was in 1957 nearly 30 per cent below that in 1936–39, while female mortality had fallen about one-third. For those aged 75 and over male mortality had fallen about 4 per cent and female mortality about 13 per cent.

In women the mean age at death from the different forms of cancer of the digestive tract, with the small exception of hepatic cancer, is very close to 70 years. In men for cancer of the oesophagus, intestine and rectum, it is about 69 years, but for cancer of the stomach, gallbladder, pancreas, and liver the



Cancer at certain sites: Mortality expressed as a percentage of the 1936–39 experience, by age, 1957, England and Wales

mean age is some 2 to $2\frac{1}{2}$ years earlier. Cancer of the larynx and trachea shows a fall at all ages proportionately greater in the case of men than women, and in men under 75 years, and women under 65 years, greater than at older ages.

Cancer of the prostate (Diagram 10, page 130) is a disease of later life, the rate of mortality rising more steeply with age than that of cancer at any other site. The mean age at death, 74·6 years, is higher than that for any other important form. Mortality has fallen below the age of 65 but risen by 20 per cent in the subsequent decade, and by 76 per cent among those aged 75 years and more. Cancer of the testis on the other hand is relatively uncommon at older ages, the mortality varying little from the age of puberty onward. Such differences as are shown in Table LXVII are of little significance, and are most probably due to chance variations. Cancer of both penis and scrotum show a remarkable decline in mortality at all ages. Though they are both relatively unimportant as causes of death, the steady decline in mortality over recent years leaves no doubt that this decreased mortality is real.

Among cancer of the female organs only cancer of the ovary and Fallopian tube shows a consistent increase in mortality. The deaths in 1957 were 30 per cent higher than if the 1936–39 rates had been maintained, and mortality had increased at all age-groups from 35 years upwards. Mortality from cancer of the uterus had fallen in 1957 in all age-groups except between 25 and 34, where a 36 per cent rise was recorded (Diagram 10). The decline was greatest in the age-group 45–54, where it was 47 per cent below the 1936–39 rate. At older age-groups the fall was less pronounced, until among those aged 75 and over it amounts to but 11 per cent. Carcinoma of the breast showed comparatively little change—a slight "all ages" fall was recorded—the lowered mortality being confined to women past the age of 55 years.

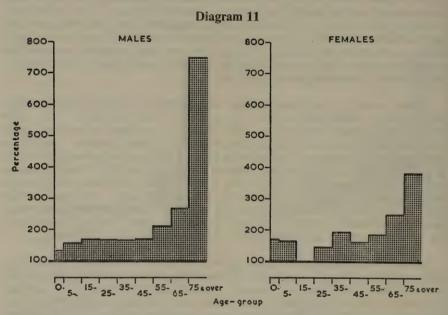
Cancer of the kidney and bladder in 1957 recorded an increased mortality in both sexes but proportionately more in men, the greatest increase being found in both sexes in the older age-groups. In men aged 75 and over the rate had risen to 215 per cent in cancer of the kidney and 188 per cent in cancer of the bladder and urethra, and in women at corresponding ages to 142 per cent and 170 per cent of the 1936–39 rates.

Mortality from leukaemia and aleukaemia is appreciable in childhood and adolescence as well as in later life, and an extended version of Table LXVII showing the mortality ratio at each age-group (1957 as a percentage of 1936–39) is given below.

		0-	5-	15-	25-	35-	45-	55-	65-	75 and over
Male	• •	130	156	170	167	164	169	211	268	750
Female		169	164	100	• 144	192	161	186	251	382

The death rate in males has risen at each age-group, and in women at each age-group except 15–24. Below the age of 55 in both sexes the 1957 rates are less than double those in 1936–39, and in men the increase has been of approximately the same magnitude at all age-groups. In both sexes the increase is proportionately much greater in the two older age-groups, especially among men aged 75 and over, where it is now more than seven times what it was in 1936–39 (Diagram 11, page 132). Table LXIX (page 133) shows the trend of mortality from the various types of leukaemia from 1950–57. This is given

separately for each sex and in two age-groups 0-14 and 15 years and over. The individual types of leukaemia were not separately classified in the statistics prior to 1950, but since that date the myeloid form has made much the largest contribution to the increased mortality from leukaemia as a whole in the older age-group. Compared with 1950 the 1957 adult male death rate for myeloid leukaemia is 11·1 per million, or 51 per cent, higher, while the female is 6·6 per million, or 32 per cent, higher, while for leukaemia as a whole the male increase is 16·9 per million, or 33 per cent, higher, and the female 13·5 per million, or 35 per cent, higher.



Leukaemia and aleukaemia: Mortality expressed as a percentage of the 1936-39 experience, by sex and age, 1957, England and Wales

Table LXIX. Leukaemia and aleukaemia: Death rates per million living, by sex, at ages 0–14 and 15 and over, 1950 to 1957, England and Wales

	A	Ages 0–14	Ages 15	and over
	Males	Females	Males	Females
	Leukaemia a	and aleukaemia (I.	S.C. No. 204)	
1950 1951 1952 1953 1954 1955 1956	31·5 36·6 42·1 38·2 29·6 34·8 33·9	30·1 31·3 30·0 31·7 26·1 32·3 33·1 27·6	51.6 49.9 55.3 57.1 59.3 65.9 64.2 68.5	38·8 44·1 44·2 47·1 49·2 46·4 50·7 52·3
	Lymphatic	leukaemia (I.S.C.	No. 204·0)	
1950 1951 1952 1953 1954 1955 1956 1957	15·3 21·5 18·8 18·2 17·1 10·9 16·7 19·4	17·4 16·8 12·3 12·0 9·9 16·3 15·9 11·2	20·9 20·0 21·7 21·2 23·2 26·3 23·4 24·5	12·8 13·6 12·6 14·2 16·7 14·0 15·5
	Myeloid l	eukaemia (I.S.C. 1	No. 204·1)	
1950 1951 1952 1953 1954 1955 1956 1957	10·6 9·7 9·2 8·5 7·2 11·5 8·6	6.8 9.7 6.9 8.3 5.6 7.6 11.1	21·7 21·8 25·0 26·6 27·3 29·3 29·2 32·8	20·4 23·8 23·8 24·8 24·9 25·2 25·7 27·0
	Acute leukaemia,	unspecified type (I.S.C. No. 204	3)
1950 1951 1952 1953 1954 1955 1956	2.8 3.2 11.6 9.7 10.4 9.2 4.0 3.6	4·0 3·1 8·5 8·9 9·3 6·5 2·8 4·6	1 · 8 1 · 8 2 · 0 1 · 8 1 · 8 3 · 0 2 · 8 3 · 2	0·9 1·8 1·8 1·9 1·6 1·2 2·1 2·8
	Monocytic leuka	emia (I.S.C. No. 2	204·2) at all age	es
	1950 1951 1952 1953 1954 1955 1956	3·9 4·1 4·7 4·7 4·3	Females 3·0 2·7 3·8 4·2 3·6 4·0 4·8 4·8	

Table LXX. Cancer (I.S.C. Nos. 140-205): Sex and age specific death rates per million living from cancer at various sites, and the percentage of mortality at each site to "all sites", 1957, England and Wales

Males

d Per cent of all sites	1.5	1.0	2.6	16.0	7.8	6.2	1.1	3.8	1.3		0.1			0.3		_
85 and over	869	337	709	2,930	2,488	1,663	151	709	337	1,384	47	3,302	12	58	81	
75-	468	211	646	3,095	2,034	1,575	204	656	291	2,655	24	2,558	17	85	156	200
65-	178	135	322	1,893	688	773	133	471	163	3,658	17	929	14	32	141	707
55-	54	41	119	106	326	274	73	218	74	2,724	10	150	∞	6	96	200
45-	6	15	39	311	112	. 83	19	16	17	915	2	14	9.	5	41	63
35-	60	4	00	. 64	40	20	9	15	. 63	169	0	2	12	1	00	11
25-	I	I	1	91	12	7	I	60	I	70	1	0	14	1	2	
15-	I	m	0	I .	7	1	0	0	0	4	1	0	00	1	I	
7	I	I	1	1	0	1	1	1	1	0	1	1	I	1	2	0
9		I	1	1	1	1	I	1	1	I	1	I	7	1	11	,
All	35	24	61	369	180	144	26	87	31	759	n	191	\$	9	33	95
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	cified		•	:	::	:	primary	:	:	d lung, specified as primary inspecified as to whether primary	:	:	**;	sur	:	:
g g	and mouth unspecified	::::	:	:	unu :	:	to be	:	:	scified a				male genital organs	:	
Site or organ	 i mouth	::::	:	:	duode	:	(stated	:	:	ing, specified	:		:	le geni	:	у отдал
Site		::•	:	:	cept re	:	d liver	:	:	s and luss, unspe	:	:	:		:	urinary
	 and outh s of mou	harynx ux ux specifie		:	ine, inc	:	ages an		:	onchus onchus ary	:	:	:	nspeci	:	other
	Lip Salivary gland Floor of mouth Other parts of mouth	Oral mesopharynx Nasopharynx Hypopharynx Pharynx unspecified	Oesophagus	Stomach .	Small intestine, including duodenum Large intestine, except rectum	Rectum .	Biliary passages and liver (stated to be primary site)	Pancreas	Larynx .	Trachea, bronchus and lung, specified as primary Lung and bronchus, unspecified as to whether pri or secondary	Breast .	Prostate .	Testis .	Other and unspecified	Kidney .	Bladder and other urinary organs
L.S.C. No.	141 142 143 143 143	145 146 147 148	150	151	152	154	155	157	191	162	170	177	178	179	180	181

6.0	1.8	0.2	0.1	1.0	0.5	1.0	1.2	0.5	0.5	5.6	0.0	2.7	100.0	
488	12	23	1	221	20	58	47	1	58	267	I	488	17,849	23
233	19	31	7	134	61	80	54	14	41	318	2	442	17,111	43
88	89	27	603	70	47	81	20	7	55	194	I	297	11,231	120
32	118	80	∞	47	32	50	48	10	42	110	I	162	5,950	173
13	77	60	4	18	14	31	37	9	15	47	I	51	2,035	119
7	39	I	3	10	Ŋ	12	32	2	9	31		19	534	56
9	19	I	I	00	co.	00	28	2	I	24	0	4	185	29
I	13	l	0	13	1	00	18	1	1	27	1	ç.	109	. 18
1	10	1	2	ۍ	I	9	5	0	1	28	i	2	64	16
1	15	1	9	4	2	5	ı	4	I	46	I	2	100	25
21	41	4	en .	22	12	22	27	4	12	09	0	62	2,312	63
{:: :: :: ::	brain and other parts of nervous	:	: : :	::	malignant neoplasm of	ticulosarcoma	: :	reticulosis)	утота)	: :	:	:		brain and other parts of nervous ain and other parts of nervous dinature of brain and other parts
Skin (malignant melanoma) Skin (malignant neoplasm)	Malignant neoplasm of brain system	Thyroid gland	Other endocrine glands	Bone (including jawbone) Connective tissue	Peritoneum	Lymphosarcoma and reticule	Hodgkin's disease	Other forms of lymphoma (reticulosis)	Multiple myeloma (plasmocytoma)	Leukaemia and aleukaemia	Mycosis fungoides	Remaining sites	Total	Malignant neoplasm of brain and other parts of nervous system Benign neoplasm of brain and other parts of nervous system Neoplasm of unspecified nature of brain and other parts of nervous system
190 191	193	194	195	196 197	158 164 198	200	201	202	203	204	205	Others in 140–205	140-205	223

Table LXXI. Cancer (I.S.C. Nos. 140-205): Sex and age specific death rates per million living from cancer at various sites, and the percentage of mortality at each site to "all sites", 1957, England and Wales

Females

	Per cent of all sites	7.0	8.0	2.2	13.7	12.5	5.5	1.9	3.9	0.4	6.1	19.6	5.6	2.8	9.0	6.5	÷
	85 and over	185	17	375	2,380	2,793	1,043	239	603	27	364	2,228	332	201	2/9	277	239
	75-	105	61	315	1,967	1,789	999	230	510	37	476	1,535	331	277	42	330	161
	-59	42	54	152	116	794	357	147	275	27	390	1,029	302	179	31	325	80
	55-	21	33	19	392	358	152	64	129	16	280	191	223	133	25	315	34
	45-	7	15	27	119	139	. 65	18	43	.9	133	538	150	45	12	210	13
	35-	(A)	9	ζ,	42	42	22	9	15	*	40	196	93	7	£,	73	5
	25-	I	I	0	11	8	4	I	Į.	I,	6	32	24	2	co.	12	0
	15-	ĺ	1	-	I	I	1	0	-1	1	I	2	1.	0	I	4	1
remaies	-5-	1	I	1	1	I	-	1	0	1	1	1	1	1	1	I	1
	-0	7		1	1	1	and the same of th	I	1	.1	1	I	1	1	1	7	I
	All	41	15	41	258	237	86	36	74	7	116	370	106	52	11	124	22
	Site or organ	Tongue Saivary gland Saivary gland Other of mouth and mouth unspecified	Oral mesopharynx Nasopharynx Hypopharynx Pharynx unspecified	Oesophagus	Stomach	Small intestine, including duodenum	Rectum	Biliary passages and liver (stated to be primary site)	Pancreas	Larynx	Trachea, bronchus and lung, specified as primary Lung and bronchus, unspecified as to whether primary or secondary	Breast	Cervix uteri	Corpus uteri	Other parts of uterus, including chorionepithelioma}	Ovary, Fallopian tube and broad ligament	Other and unspecified female genital organs
		15 REQ	Q N H H	ő	Sto	Su	Re	Bi	Pa	La	보고	Bi	ŭ	Ŭ	ÖĎ	0	0

141 310 1·1 14 11 1·5 75 114 0·6 4 — 0·1 82 109 0·9	114 – 109	114 – 109	109	109		53 43 0.7	59 82 0.9	30 - 0.7	11 11 0.2	46 22 0.7	172 120 2.5	5 - 0.0	373 478 3.5	10,284 13,277 100.0	29 22 —
88 4 4 4 4 4 5 8 8 8 9 8 9 8 9 8 9 8 8 8 8 8 8 8 8 8							62	26	9	56	117	I	234	6,113	87
22 76 21 21 2		21	2		27	27	33	23	9	39	70	0	116	3,559	123
16		50	7	4	14	15	12	14	4	111	43	I	57	1,813	79
	15	27	I	I	9	4	5	111	2	es.	31	-	19	693	43
	· · · · · · · · · · · · · · · · · · ·	111	-	I	4	2	<i>c</i> 0	13	I	1	18	1	9	178	20
	4	00	0	I	9	. ~	3	9	1	1	12	1	w	57	15
	0	10	1	I	4	1	3	7	0	1	21	I	0	47	15
7	1	6	1	7	2	I	5	1	5	1	41	1	4	83	20
	22	29	111	7	17	12	16	12	63	14	47	I	99	1,890	84
	::	parts of nervous	:	:		malignant neoplasm of	:	:	•	:		:		:	parts of nervous
	Skin (malignant melanoma)	Malignant neoplasm of brain and other parts of nervous system	Thyroid gland	Other endocrine glands	Bone (including jaw bone) Connective tissue	Peritoneum Mediastium Secondary and unspecified malignam Jymph nodes	Lymphosarcoma and reticulosarcoma .	Hodgkin's disease	Other forms of lymphoma (reticulosis)	Multiple myeloma (plasmocytoma)	Leukaemia and aleukaemia	Mycosis fungoides	Remaining sites	Total	Malignant neoplasm of brain and other parts of nervous system Benign neoplasm of brain and other parts of nervous system Neoplasm of unspecified nature of brain and other parts of nervous system
	190	193	194	195	196	158 164 198	200	201	202	203	204	205	Others in 140-205	140-205	193 223 237

Compared with 1936–39, death rates from Hodgkin's disease were higher in 1957 in all age-groups from 25 upwards, the proportional increase being greater in men than in women (Table LXVII).

Mortality from new growths of the brain and central nervous system (I.S.C. Nos. 193, 223, 237) increased in both sexes from the age of 45 to 74 and also in older men, the greatest proportional increase being found in both sexes in the age-group 65–74.

Table LXVII also gives for 1957 the mean age at death for all causes, all sites of cancer, and each individual site. The "all causes" line shows the mean age at death of women to be $4\cdot7$ years greater than that of men, but for all cancer sites the difference is but $0\cdot8$ years. At the majority of sites common to both sexes the average age at death is higher in women than men, notably, cancer of the stomach ($3\cdot8$ years), pancreas ($3\cdot1$ years), kidney ($4\cdot1$ years), and bladder ($2\cdot6$ years). Cancer of the breast, ovary, and uterus, which account for more than one-third of all cancer deaths among women, tend to occur early in life, the mean age at death from cancer of cervix and ovary being about $60\frac{1}{2}$ years while those for breast and corpus uteri were $63\frac{1}{2}$ and $66\frac{1}{2}$ respectively. In contrast with this, the mean age at death from cancer of the testis, which accounts for but $0\cdot3$ per cent of all male deaths from cancer, was $43\cdot3$ years, but that from cancer of the prostate, to which cause were assigned $6\cdot9$ per cent of male cancer deaths, was $74\cdot6$ years.

The proportion of deaths assigned to cancer at the various sites in 1957 was very different from that in 1939, especially among men, where, in 1939, lung cancer accounted for nearly 11 per cent of all cancer deaths, whereas in 1957 the proportion had risen to nearly 33 per cent. In consequence of this large increase at a single site, the proportion at the majority of other sites has fallen, but cancer of the bladder has increased from 3.3 to 4.1 per cent, and leukaemia from 1.7 per cent to 2.6 per cent. Less disturbance has been caused by cancer of the lung in women, where the proportion has risen only from 2.8 per cent to 6.1 per cent. The proportion of ovarian cancer has increased from 4.9 per cent to 6.5 per cent, and of pancreatic cancer from 2.9 per cent to 3.9per cent, while for leukaemia the percentages are 1.4 and 2.5, and for bladder cancer 1.5 and 2.0. The two largest recorded falls, both in women, are uterine cancer (from 12.5 per cent in 1939 to 9.0 per cent in 1957), and gastric cancer (16.6 per cent to 13.7 per cent). The percentage distribution of cancer at individual sites in 1957 is shown in the last columns of Tables LXX and LXXI (pages 134-136).

Cancer of the lung, and urbanisation

In the 1953 Text Volume of the Statistical Review (page 139) the standardised mortality ratios for cancer of the lung during the period 1950–53 were given for population aggregates in England and Wales. The figures are reproduced in Table LXXII (page 139) with the corresponding figures for the period 1954–57. Between the rural districts and the conurbations the gradient appears to have flattened in male mortality but to have grown steeper for women. In the earlier period the difference between the S.M.R.s in the rural areas and in the conurbations was for men 62 and for women 45, while over the last four years the difference was only 55 for men but 50 for women. The figures for the "Truly Rural" areas are less reliable for the period 1954–57 than in the earlier period since the present population in these small and scattered areas may have changed since the census year and the adjustments made may not fully reflect this change. The S.M.R.s in these areas still suggest a lower risk from lung cancer among those who live away from towns and industrial undertakings.

Table LXXII. Cancer of lung and bronchus (I.S.C. Nos. 162, 163): Standardised mortality ratios by sex in the urban and rural aggregates, and in selected rural ("truly rural") areas within regional groups, 1950–53 and 1954–57, England and Wales

	Ma	iles	Fem	nales
	1950–53	1954–57	1950–53	1954–57
ENGLAND AND WALES	100	100	100	100
Conurbations	126	124	121	127
Areas outside conurbations: Urban areas with populations of 100,000 and over	111	109	101	94
Urban areas with populations of 50,000 and under 100,000	95	96	89	92
Urban areas with populations under 50,000	84	86	86	, 79
Rural districts	64	69	76	77
"Truly rural" areas: North of England	48	. 48	67	: 64
Midlands and Eastern	47	51	66	39
South of England	49	62	67	71
Wales	33	43	56	, 57

The sex ratio in cancer

In the 1953 Text Volume (page 160) a table was included giving for the years 1950-53 for males and females separately the deaths from cancer at certain sites; the number of deaths was given for each metropolitan borough and county borough and the aggregate of other urban and rural districts in each administrative county. It was suggested that if the production of cancer at any given site was influenced by some carcinogen which, either from industrial or social conditions, affected either men or women to a greater or lesser degree, such difference might be reflected in the ratio of male to female deaths. If in any area or group of similar areas, where local conditions brought one or other sex more closely into contact with such a carcinogen, it might be expected that such conditions would result in a lowering or raising of the sex ratio in comparison with the country as a whole. In this table deaths were recorded from some 235 localities and the resulting numbers were frequently too small to establish a valid local ratio. A similar table for the years 1954-57 is included in the present commentary (Table LXXIII, page 140) to increase the data available and minimise the effects of random fluctuations.

Table LXXIII. Deaths from cancer at certain sites, in the metropolitan and county boroughs, and in the urban and rural aggregates of the administrative counties of England and Wales, by sex, 1954-57

	Leukaemia and aleukaemia (204)	[Li	4,198	344	13 5 7 13 13	48-101	144 14	12 17 17 4	11022751	0404
	Leukaemia and aleukaemia (204)	Z	4,895	422	177	01189	26 13 24 24	225	10018	259
	cin's ise	H	1,169	94	106	w == w	444 14	86000	w4 4w	21.01
	Hodgkin's disease (201)	M		159	04	46004	L44 8	13	28 94	4 9 10 4
	ho- ma ilo- ma	II.	1,473 2,079	153	0=30	4 -40	0100	54000	24 146	× ×
	Lympho-sarcoma and reticulo-sarcoma (200)	M	1,871	178	-4440	ww-ww	00 00 111	54000	44000	120
	ding one)	[L	1,177	98	12-64	wu uu	4 400	LL004	14 10	2022
	Bone (including jaw bone) (196)	M	1,438	113	16 1-0	901818	0.4 0	4n m ∞ m m	m0-0m	1889
	der ther ary ins	II.	3,437	391	1046	27 - 61	24 11 10 32 35	2222 2444 4400	E0 E4 E	633
	Bladder and other urinary organs (181)	M	7,887	171	26 10 18 18 41	15 10 10 25 15	42 31 17 5 65	23 23 19 19	19 29 31 31	13 99 13 27
	ney 0)	ĮT.	1,774	184	-8400	00000	10	2001	00 04	23.9
the factor of th	Kidney (180)	Z	2,786	246	-6049	w&v00	17 17 21 21 21	0110	∞5151×∞	£ 40
	and chus 163)	H	10,047	1,274	645 44 64 64 64	22 15 25 25 25	36 41 17 89	73 65 54 27	37 29 31 31	71 74 44 44
	Lung and bronchus (162, 163)	M	60,860	6,278	17 214 120 98 330	82 192 76 249 161	307 242 134 477	230 391 375 225 137	131 300 116 214 214	73 749 174 233
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		M	2,693	285	100.02	20020	074 21	r 2114 21244	40004	477 111
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	Nose, nasal cavities, middle ear and accessory sinuses (160)	M	491	53	4	711	2222	404-		1212
		H	6,437	999	111 113 120 22	E. 8 & 9 I	20 11 12 4 45	20433	23 23 4 18 18	00 00 00 00 00 00 00 00 00 00 00 00 00
	Pancreas (157)	M	7,343	609	252 133 26 83 26	183381	41 11 48 48	24 33 41 7	18 22 22 22 22	83 111 27
	ch	江	24,663	1,723	30 30 31 94	35 15 35 35	944 40 89	352 322 322 323	23 33 53 53 54 52 53	33 272 34 73
	Stomach (151)	M	31,556 2	2,273	822 442 125 125	52233	129 75 46 174	127 169 72 61	82.00	291 44 97
	agus	II,	3,808 3	282	10177	09090	41 00 10 10 10	896	105386	8200
	Oesophagus	M	5,354 3	441	11 11 6 5 16	21.25.18	20 13 10 3 25	15 15 13 13	113 173 29 29	61 15 20
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ounty	Barry Barry Bath Birke	Blackbu Blackpo Bolton Bootle Bourner	Brighton Bristol Burnley Burton	Bury Canterb Carlisle Chester Coventr	Croyde Darling Derby Dewsb Doncas	Dudley Eastbol East H Exeter Gatesh	Glov Grir Hali Hast	Hudde Ipswic Kingst Leeds Leices	Linc Live Man Mid

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Lung and bronchus (162, 163)	M	143 143 462 182 130	242 325 177 161 119	120 160 363 920 96	290 271 152 162 248	401 244 97 66 152	171 135 118 312 90	199 199 129
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Larynx (161)	M	98486	91 90 90 90 90 90 90 90 90 90 90 90 90 90	3,100	100 100 7	13225	1256	01.004
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Pancreas (157)	M	13 23 17 17	443 151 151 151	10 17 27 93 6	32 23 17 17	31 13 15 6	10 118 27 6	268
ach	Ħ	61 85 148 110 49	81 116 63 42 68	35 53 107 287 58	112 89 61 92 97	188 124 52 35 70	77 48 39 39 82 82 82 82 82 82 82 82 82 82 82 82 82	81 83 33 55
Stomach (151)	M	81 203 123 58	149 182 107 74 66	51 107 135 402 51	117 108 58 109 130	243 140 64 57 94	79 68 72 137 62	46 116 87
ohagus 50)	II.	24800	152	288	18 222 14 11	113 6	00004	2000
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37 26 26	3,138	31	474	33	19	111	31	13	58	39	30	87	7	218	37	100
147 61 52 137	10,408	128	53	98	36	395	154	71	175	175	114	390	27	697	133	39
21 55 75 157	13,065	133	50	117	53	489	167	95	235	186	131	566 241	37	934	95	488
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Table LXXIII—continued

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Leukaemia and aleukaemia (204)	M	34	14	170	178	16	0.00	4 11	16	250	30	001	37	35	13
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Lympho-sarcoma and reticulo-sarcoma (200)	M	17	00	52 20	47	20		2-	7	120	13	9	15	16	10
ding one)	IL	13		38	34	10	1=	44		20	10	90 CI	1	111	-2
Bone (including jaw bone) (196)	Z	96	1	39	73	94	11	100	24	49	9	014	17	0.01	- 4
der ther ary ms	压	40	-4	131	128	12	20	mm	10	193	22	10	23	23	123
Bladder and other urinary organs (181)	M	33	94	218	307	38	188	13	36	405	52	30	53	67	22
ley 9)	H	19	11	55	13	0,00	-	11	30	. 93	40	94	15	15	19
Kidney (180)	M	38	22	83	101	4	40	0.4	69	166	29	900	21	21 5	10
and chus 163)	H	97	44	287	395	25	<u></u> ∞ о	18	41 20	682	104	23	58	74	7
Lung and bronchus (162, 163)	M	601	3888	1,791	2,413	172	39	60	180	3,604	290	145	434	402	58
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Larynx (161)	M	20	€0 ===	79	118	9	62	99	9.60	116	20	99	5.	17	- 4
es, ear l ory es	[II	<u>с</u> -	11	10	33	111	11	-	40	111	10	e=	7	8	
Nose, nasal cavities, middle car and accessory sinuses (160)	M	1		0.4	27			-	7-1	26	1 2	10	C	9	2
	H	61	900	172	277	25	99	77	24	340	18	17	28	13	11
Pancreas (157)	×	77	7	239	302	23	9 %	10	24	388	23	30	61	33	00
ch	H	220	24	591 169	1,189	88	22	40	75	1,088	33	72	209	147	20
Stomach (151)	M	284	22	735	1,390	106	18	36	104	(,315	60 228	106	292	249	31
agus ()	II.	33	40	90	156	5	98	10	==	171	3	12,	31	19	4 4
Oesophagus (150)	×	37	10	177	214	22	w4	120	20	221	111	13	37	28	400
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Table LXXIII—continued

THE TOTAL TOTAL THE	communica	4																	ı	i			
		Oesophagus	hagus	Stomach	ach	Pancreas		Nose, nasal cavities, middle ear and accessory		Larynx	Lung and bronchus	and	Kidney		Bladder and other urinary organs		Bone (including jaw bone)		Lympho- sarcoma and reticulo- sarcoma	Hodgkin's disease	kin's ase	Leukaemia and aleukaemia	emia emia
		(150)	(0)	(151)	0	(157)		(160)		(161)	(162, 163)	163)	(180)		(181)		(196)	0	(200)	(201)	<u> </u>	(204)	
		M	ĬŢ,	M	ц	M	H	M	M	T.	M	Ľ	M	[IL	M	4	M	M	H	×	H	M	H
Anglesey	(UD) :	03	200	19	19	775	1			11 2	23	20	-4	77	715	10 H		1-	-1	7171	11	7	l w
Brecknockshire	(UD)	12.2	200	14	14	1 6	90	11		22	35	62	80	11	4-	11	60-1	1 2		12		-4	mm
Caernarvonshire	. (US)	12	411	91	85	7.5	5.7	-1	***************************************	24	92	18	000	24	10	7.2	77	12	4-	44	3	10	L 4
Cardiganshire	: (SE)	00 40	411	20 67	423	m 00	79		1-	21	22	43	mm	1=	90	-4	11	10	-62	10	11	-4	- 1
Carmarthenshire	: (E)	15	15	86	103	12	10	Um	-61	3	106	117	-77	14	118	9.60	71 m	14,	3.1	9	0.4	900	20
Denbighshire	:	17	16	88	67	12	10		10	514 516	99	18	675	NW	17	m 71	218	44	1 2 2	44		10	12
Flintshire	: (E)	15	10	66 72	57	16	14		1-	2 2	96	700	mm	24	12	£ =	<u> </u>	260	313	w4	77	10	13
Glamorganshire	. { USD :	81 23	61	526 177	352	86 21	62 26	00 m	1 1	30 31	540	58	28	2000	73	22	12 12	11 22 6 9	110	28	111	48	30
Merionethshire	: {	m m	40.00	36	28	101	mm			1-	21 15	v	77	1-	ν-i	77		17		1	TT	21	12
Monmouthshire	: {35	29	22	274 50	170	10	39		4	16 9	284	23	18	00	25.	15	0.01	8 13	4	14	2	208	7
Montgomeryshire	: {	63	7	36	17 20	mm	40	11	11	1-	12 21	40	2121	7-	-6	1-		11	11	-	77	40	44
Pembrokeshire	{ RD	20	41	39	28	7	200	11		7	28	10	40	1=	24	NW	-4	1-	wc1	5	2	27	4 6
Radnorshire	{WD	2	1-	14	49	0.4		11			40	12		11	72	E				11	12	11	1-1

In Table LXXIV (page 148) a comparison is made of the sex ratio in the two four-year periods for deaths from cancer at each of the selected sites in England and Wales as a whole, in the aggregates of county boroughs, other urban and rural districts, and the London Administrative County with Middlesex. (In this table "sex ratio" means the ratio of the male to female death rates [all ages]; that is to say, allowance is made for the varying proportions of males and females at risk in the different categories.) At most of the selected sites there has been very little change in the sex ratio for England and Wales as a whole, but a big difference is recorded in oesophageal cancer and in lymphosarcoma, while lesser differences occur in the case of lung and laryngeal cancer. These are explained by changes which have occurred in the male and female death rates over the two four-year periods as is shown below:

Site		Annual ave rate per		Percentage
		1950–53	1954–57	change
Oesophagus	${M \atop F}$	69 37	62 41	-10 +11
Lymphosarcoma and reticulosarcoma	$\left\{ \begin{smallmatrix} M \\ F \end{smallmatrix} \right.$	20 12	22 16	+10 +33
Larynx	${M \atop F}$	37 8	31 8	<u>-16</u>
Lung and bronchus	{M F	548 94	709 109	+29 +16

Table LXXIV. Sex ratios for cancer at certain sites, in the aggregate county boroughs, urban districts (distinguishing combined London Administrative County and Middlesex), and rural districts, 1950-53 and 1954-57, England and Wales

These sex ratios are the ratios of the male to female death rates (all ages)

	London Admin. County and Middlesex	1954-57	1.28	1.12	96.0	1.30	1.70	4.43	1.30	1.76	1.04	1.02	1.48	1.02
	London Count Midd	1950–53 1954–57 1950–53 1954–57	1.62	1.06	0.93	1.00	1.00	7 . 54	1.33	1.84	1.17	1.30	1.46	0.93
	ral	1954-57	1.36	1.39	1.20	1.66	1.50	5.34	1.78	2.61	1.17	1.39	1.73	1.32
	Rural	1950–53	1.50	1.38	1.21	1 27	75.1	3.00	1.70	2.61	1.45	1.93	1.65	1.20
es of:	urban (except Admin. y and esex)		1.20	1.15	1.02	1 20	67.1	2.63	1.41	2.03	1.13	1.09	1.65	1.04
Aggregates of :	Other urban districts (except London Admin, County and Middlesex)	1950–53	1.54	1.14	1.03	,	1.73	3.31	1.30	2.12	1.18	1.32	1.48	1.00
	nty ughs	1950-53 1954-57 1950-53 1954-57	1.40	1.14	1.05	60	56.0	3.00	1.40	2.16	1.13	1.24	1.64	1.01
	County	1950–53	1.65	1.14	1.03		1.1/	4.18	1.23	2.17	1.21	1.30	1.68	1.05
	and	1950–53 1954–57	1.30	1.18	1.05		1.73	5.43	1.45	2.12	1.13	1.17	1.64	1.08
	England and Wales	1950–53	1.58	1.17	1.05	5	77.1	700	1.34	2.17	1.24	1.40	1.57	1.04
				:	:	ear, and accessory	:	:	:	rgans		nd reticulosarcoma		:
	Site		Oesophagus	Stomach	Pancreas	Nose, nasal cavities, middle ear, and accessory	sinuses	Larynx	Lung and bronchus	Bladder and other urinary organs	Bone (including jaw bone)	Lymphosarcoma and reticul	Hodgkin's disease	Leukaemia and aleukaemia
	Intl. Classn. No.		150	151	157	160		161	102, 103	181	196	200	201	204

DISEASES OF THE CIRCULATORY SYSTEM

During 1957 there were 188,630 deaths assigned to diseases of the circulatory system and a further 73,669 assigned to vascular lesions affecting the central nervous system, making 262,299 deaths in all, or 51 per cent of all deaths in England and Wales.

Table LXXV (page 150) shows crude death rates per million living from some individual diseases of the circulatory system during 1941 to 1957. The interpretation of this table is made more difficult by the changes in diagnostic fashion that have been taking place during this period but the following points are worthy of comment.

There is little doubt that the decline in the death rate from rheumatic fever and chronic rheumatic heart disease is a real one, and has been brought about by improved social conditions, and by improved prophylaxis and treatment of rheumatic fever. The same may be said of the decline in deaths assigned to acute and subacute endocarditis, although it is known that the number of deaths assigned to endocarditis has borne little relation to the number of deaths in which the disease has been present. The reason for this is that subacute bacterial endocarditis usually occurs when there is a pre-existent heart lesion and the principle of certification of cause of death in accordance with the underlying cause often results in assignment to the heart lesion, i.e. the occurrence which initiated the train of events leading to death. In 1951, in an investigation of a sample of death certificates, there were 26 deaths assigned to acute and subacute endocarditis, and a further 39 in which the disease was mentioned as a complication or contributory condition.*

Similarly, with hypertension the number of deaths assigned to the disease gives no indication of the number of cases in which hypertension was implicated in the death and mentioned on the certificate, for, by the coding rules of the Sixth Revision of the International Statistical Classification of Diseases, Injuries and Causes of Death, certificates in which there was mention of coronary artery disease or vascular lesions of the central nervous system as well as hypertension were always assigned to one of the first two conditions. In 1951, in the same investigation mentioned in the previous paragraph, out of 3,241 certificates resulting in assignment to arteriosclerotic (coronary) heart disease, there was mention of hypertensive disease in 385 (12 per cent). Out of 4,161 certificates resulting in assignment to vascular lesions affecting the central nervous system, hypertensive disease was mentioned in 1,032 (25 per cent).†

The apparent rise in the mortality from coronary artery disease which has been taking place in recent years has excited great interest in medical and other circles, but it is very difficult to estimate how much of the rise is real. The evidence for some part of it being real, particularly among males, is very strong, but is based largely on sources other than those of vital statistics. The main statistical evidence is the failure of the death rate of the older males for all causes to fall as rapidly as that of females of equivalent age-groups. In addition, the comparative mortality index (C.M.I.) for diseases of the circulatory system has shown a rise in males of roughly 10 per cent in the last 20 years, while that for females has fallen by the same amount. There has been a rise of over 10

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^{*}The Registrar General's Statistical Review, 1954, Part III, Commentary, pp. 157-159. H.M.S.O. London, price 8s. net.

[†]The Registrar General's Statistical Review, 1951, Text Volume, pp. 260-265. H.M.S.O. London, price 10s. net.

Table LXXV. Diseases of the circulatory system, and vascular lesions affecting the central nervous system: Death rates per million living, by sex, 1941-46 and 1947 to 1957, England and Wales

	1957	4 4 4	2,228 2,208 1,226	79 68 1,043	1,422 9	210	406	220	27.7	885 85 85 85 85 85 85		4,1
	1956	s 142	2,181 1,204	73 57 1,186	1,587	189 200	432 479	242	221	86 4,559	1.10	1,442
	1955	140	2,069 1,143	73 58 1,256	1,647	186	446	247	221	4,525	7	1,454
	1954	7 6 148	237 1,991 1,066	78 62 1,256	1,626	180	444 467	248	998	4,447		1,433
	1953	7 7 157	1,837 995	69 57 1,312	1,707	091 166	436	247	8 5 5 5	4,313	1.06	1,356
	1952	7 × 164	1,847	71 61 1,388	1,733	146 155	427	252 250	220	4,384		1,381
0	1951	8 9 194	298 1,757 937	62 45 1,648	2,082 10 7	149 158	476	287	917	53 4,652	1.16	1,378
	1950	201	306 1,640 885	72 54 1,555	1,965 11 7	111	445	269	255	4,378 4,378	1.09	
	1949	15 17 181	270 1,453 765	112 95 1,728	2,071 12 10	107	388	259	447	4,325 65 65 65	1.07	1,528
	1948	18 20 181	1,264 652	106 97 1,559	1,772	109	351	239	100	3,879	0.97	1,125
	1947	18 19 203	272 1,245 586	132 114 1,890	2,026	120	375	279	199	4,320 4,320	1.06	1,284
	1941–46	2422	290 991 421	191 1,929	1,823 20 20	123	338	271 200	201-4	4,201 1,368	0.98	1,294
		Rheumatic fever ${K \choose F}$ Chronic rheumatic heart ${M \choose F}$	Arteriosclerotic heart disease M including coronary disease F	Chronic endocarditis not M specified as rheumatic F Other myocardial degenera-	Acute and subacute endocar-	eart {	out mention of heart F disease	٠,	Sm and in-	Other circulatory diseases F Diseases of the circulatory M system	tive mortality index	Vascular lesions affecting the $\sum_{i=1}^{N} M_i$
	No.	400-402		421	430	431-434	440-44/	450	Rem of	451-468		330–334
Abbre-	viated List No.	B.24 B.25	B.26		B.27	00 00 00	D.20, 29	B.46 Pt.				B.22

Table LXXVI. Diseases of the circulatory system, and vascular lesions affecting the central nervous system: Deaths and death rates per million living, and per 100 deaths from all circulatory diseases, by sex and age, 1957, England and Wales

	75 and over		8.00	947 798 1·7	13,044 10,989 23.4	27,341 23,034 49.0	2,888 2,433 5·2	3,782 3,186 6.8	2,056 1,732 3.7	5,753 4,847 10·3	55,819 47,025 100	24,146
	-59		4.0	1,134 564 4·8	10,449 5,201 43·8	5,826 2,900 24.4	1,438 716 6·0	2,180 1,085 9·1	1,088 542 4.6	1,728 860 7·2	23,851 11,872 100	5,985
	45-		2.8	2,246 373 19·4	4,843 805 41.9	1,414 235 12·2	720	920 153 8·0	583 97 5·0	829 138 7·2	11,572 1,924 100	6,396
	25-	iles	4.3	824 132 58·3	176 28 12·4	66 11 4·7	89 14 6·3	31 4.9 2.2	61 9.7 4·3	140 9:9	1,414 226 100	501 80
0 (.	15-	Fems	6.1	69 25 50·7	0.36	2.9	23 8·3 16·9	0.36	1.1	18 6.5 13.2	136 100	36
200	٩		33.8	1.6 14.5	0.40	0.80	3.0 27.3		0.60	0.80	55 111 100	90 6.0
	All		96 4·1 0·1	5,228 225 5.6	28,515 1,226 30·7	34,655 1,490 37·3	5,173 222 5·6	6,914 297 7.4	3,794 163 4·1	8,472 364 9·1	92,847 3,992 100	43,132
, Ca (ma	75 and over		4.5.0	370 549 0.9	12,787 18,972 32.6	16,593 24,619 42.3	2,018 2,994 5·1	2,191 3,251 5.6	1,269 1,883 3.2	3,977 5,901 10·1	39,209 58,174 100	14,405
	-99		5.7	641 459 2·2	16,131 11,555 55.9	5,643 4,042 19·6	1,482 1,062 5·1	1,937 1,388 6.7	1,091 782 3·8	1,904 1,364 6.6	28,837 20,657 100	9,624 6,894
	45-		25 4.6 0.1	1,348 249 5.4	17,524 3,240 70·0	1,915 354 7.6	1,082 200 4·3	1,181 218 4·7	922 170 3·7	1,050 194 4·2	25,047 4,631 100	5,936
	25-	Males	3.6	551 89 22·1	1,359 221 54·5	131 21 5·3	128	9.3	134 5.4 5.4	110 18 4:4	2,492 405 100	489
	15-		2.5	68 25 48·2	5.7.8	14 5.1 9.9	6.2	0.73	5.78	17 6.2 12.1	141 51 100	15
	9		12 2:3 21:1	2·1 19·3	111	1.5 14.0	3.4 31.6	111	111	1.5 14.0	57 111 100	8.2
	Ail		78 3.6 0.1	2,989 138 3·1	47,809 2,208 49·9	24,304 1,123 25.4	4,745 219 5·0	5,368 248 5·6	3,424 158 3·6	7,066	95,783 4,425 100	30,537
6			Deaths Rate Per cent	(Deaths Rate Per cent	Rate Per cent	Rate Per cent	Rate Per cent	Rate Per cent	Rate Per cent	Rate Per cent	Rate Per cent	Deaths
	Cause of death		Rheumatic fever	Chronic rheumatic heart disease	Arteriosclerotic heart disease	Degenerative heart disease	Other diseases of the heart	Hypertension with heart disease	Hypertension with- out heart disease	Other circulatory diseases	All circulatory diseases	Vascular lesions affect- ing central nervous system
	Abbre- viated List No.		B24	B25		151	B27	B28	B29	B46 (Pt.)		B22

per cent in the C.M.I. for vascular lesions affecting the central nervous system for both males and females during the same period. The slight fall in the C.M.I. for 1957 as compared with 1956 should not be regarded in any favourable light, as it was most probably the result of the mild winter of 1956–57. This enabled old people to survive when any prolonged cold spell would have brought in its train an increase in mortality from most of the diseases associated with increasing age. The influenza epidemic in the latter half of 1957 did not counterbalance the effect of the mild weather on the all-ages crude death rate.

It is probably true to say, therefore, that in recent years there has been some increase in mortality from cardiovascular disease among males which has not been accompanied by a similar increase among females.

Deaths from cardio- and cerebro-vascular disease by sex and age

Table LXXVI (page 151) shows the distribution of deaths from cardio- and cerebro-vascular disease by sex and age. It also shows the proportion per 100 deaths, assigned to particular causes by sex- and age-group.

Rheumatic fever and chronic rheumatic heart disease are diseases of relatively great importance in the young and young middle-aged. In women aged 25-44 these conditions were responsible for 60 per cent of deaths from cardiovascular disease. Although in both sexes the death rate from chronic rheumatic heart disease increased with age, its importance as a cause of death relative to other cardiovascular disease diminished, and in men and women aged 65-74 was responsible for only $2 \cdot 2$ and $4 \cdot 8$ per cent of deaths respectively.

With the so-called group of arteriosclerotic and degenerative heart diseases there is known to be a certain amount of looseness in terminology between the one and the other, especially in death certification. The table below shows the percentage of deaths from cardiovascular disease assigned to each group separately and together.

			ntage of all aths assign			
Cause of Death		Males			Females	
	45	65–	75 and over	45	65-	75 and over
Arteriosclerotic heart disease (I.S.C. No. 420)	70.0	55-9	32.6	41.9	43.8	23.4
Degenerative heart disease (I.S.C. Nos. 421, 422)	7.6	19.6	42.3	12.2	24.4	49.0
Arteriosclerotic and degenerative heart disease (I.S.C. Nos. 420–422)	77.6	75.5	74.9	54·1	68.2	72.3

Evidence presented in Part III of the *Review* for 1956* showed that there was considerable confusion between the two causes under discussion, and this table adds weight to the view that it is unwise to make much distinction between arteriosclerotic and degenerative heart disease as used in the present classification in analysing age- and sex-trends.

Hypertension with or without heart disease is not shown as a very important cause of death, mainly because of the application of rules for coding death certificates. Even the distinction between hypertension with or without heart

^{*}Certification of Cause of Death. The Registrar General's Statistical Review, 1956, Part III, Commentary, pp. 182-207. H.M.S.O. London, price 16s. 6d. net.

disease should be treated with some reserve, as the coding rules result in the assignment of hypertensive heart disease to I.S.C. No. 443 (Other and unspecified hypertensive heart disease), while hypertensive heart failure would be assigned to I.S.C. No. 444 (Essential benign hypertension). This apparent paradox is explained on the grounds that heart failure (not otherwise specified) is assigned to the group of symptoms or ill-defined conditions, whereas heart disease is assigned to one of the rubrics of the cardiovascular disease group. In 1957, out of a total of 4,041 deaths assigned to I.S.C. No. 444, there were 2,559 (63 per cent) in which the death certificate gave either hypertensive heart failure as the cause of death, or there was mention of any of the conditions included in I.S.C. No. 782.4 (Acute heart failure, undefined). In addition there were a further 355 (9 per cent) in which hypertension was mentioned with any condition included in I.S.C. No. 421 (Chronic endocarditis not specified as rheumatic) or I.S.C. Nos. 430-433 (Acute and subacute endocarditis, acute myocarditis not specified as rheumatic, acute pericarditis specified as rheumatic, and functional disease of the heart).

Geographical distribution

Tables LXXVII and LXXVIII (pages 154–155) compare the death rates from certain cardio- and cerebro-vascular causes of men and women aged 45–64 and 65 and over living in the standard regions, conurbations, and urban and rural districts of England and Wales.

Chronic rheumatic heart disease and other valvular disease gave rates which decreased with decreasing urbanisation in both sexes and in both age-groups with the exception of the rate of persons aged 65 and over in rural districts, which was slightly higher than the corresponding rate in the small urban areas, and of the female rate at 45–64, which was greater in the aggregate of urban areas with populations under 50,000 than in that of urban areas with populations of 50,000 and under 100,000. In the 45–64 year age-group the death rate was highest in the North Western and the East and West Ridings regions and in Wales.

For arteriosclerotic heart disease, a descending urban/rural gradient of mortality is to be seen except for the rates for conurbations, which are lower than those for other large urban areas. Regional rates are highest in the regions in the northern part of England, and in Wales.

Table LXXVII. Diseases of the circulatory system, and vascular lesions affecting the central nervous system: Death rates per million living, by sex, at age 45-64, in the standard regions, conurbations, and urban and rural aggregates outside the conurbations, 1957, England and Wales

	Hypertension with or without heart disease (440-447)	ĪĽ	250	313 256 275 275 275 277 277 274	254 273 273 273 273 274 275 277 277 277 277 277 277 277 277 277	290	213	258 223
	Hyperter or with dis (440	M	389	327 333 403 394 4443 291 371 437	300 300 342 372 4875 4875 4875	425	363	379
	liseases eart 434)	IL	120	721 139 128 128 128 128 128 128 128	118 99 98 187 187 135 135	132	153	107
	Other diseases of heart (430–434)	M	200	222 222 222 222 222 222 222 222 222 22	238 238 238 204 204 204 204	224	216	184
	ardial ration 2)	Ľ	182	234 234 234 234 234 106 106 108	207 207 227 227 239 177 177 177 177	193	164	195
	Myocardial degeneration (422)	M	247	282 303 303 280 280 280 280 280 280 280 280 280 280	201 170 170 232 242 242 112	270	255	284 278
	clerotic isease 0)	Iti	805	1,141 993 885 691 740 680 680 772 772	792 1,203 1,203 1,203 781 684 680	870	881	846 706
	Arteriosclerotic heart disease (420)	M	3,240	2,2,3,3,3,3,3,3,3,3,3,3,3,3,3,3,3,3,3,3	3,427 3,980 4,191 4,118 2,992 3,174	3,463	3,270	3,230
	Chronic rheumatic heart disease and hronic endocarditis (410–416, 421)	I	426	445.08.45.45.45.45.45.45.45.45.45.45.45.45.45.	\$50 550 586 654 631 441 430	455	371	373
	Chronic rheumatic heart disease and chronic endocarditis (410–416, 421)	M	356	0.000 0.000	3386 3388 3388 361	381	360	332
	lesions central system	Ĭ.	1,063	1,223 1,226 1,073 1,073 1,067 1,088 1,090	1,144 1,135 1,170 1,059 1,059	1,075	1,062	1,160
	Vascular lesions affecting central nervous system (330–334)	M	1,098	1,218 1,190 1,1356 1,038 1,184 950 868 868 1,175 1,175	1,076 1,470 1,326 1,257 1,223 825	1,143	1,100	1,211
I	auses	Ħ	7,591	8,8,28,3 7,7,26,4 7,7,26,0 7,05,2 8,00,0 7,05,2 8,00,0 7,05,2 7,05,2 7,05,2 7,05,2 7,05,2 7,05,2 7,05,2 7,05,2	8,423 8,968 8,744 8,483 7,701 7,081	7,846	7,569	7,473
	All causes	M	13,706	14,835 16,010 12,036 11,346 12,997 12,997 12,933 12,343	14,624 16,110 15,828 16,197 17,191 15,064 13,265	14,821	13,713	13,329
			ENGLAND AND WALES	Regions: Northern East and West Ridings North Western North Widland Midland Eastern London and South Eastern Southern South Western Wales (including Monnouthshire)	Conurbations Tyneside West Yorkshire South East Lancashire West Midlands Greater London	Areas outside conurbations: Urban areas with populations of 100,000 and over Urban areas with populations of	50,000 and under 100,000	Rural districts

Table LXXVIII. Diseases of the circulatory system, and vascular lesions affecting the central nervous system: Death rates per million living, by sex, at age 65 and over, in the standard regions, conurbations, and urban and rural aggregates outside the conurbations, 1957, England and Wales

	sion with ut heart ase 447)	P4	2,849	2,784 3,151 2,822	2,2,2,2,2,2,4,9,2,9,2,9,2,9,2,9,2,9,2,9,	2,498	3,182 3,437 2,675 3,575 3,223	2,934	2,534	2,638
	Hypertension with or without heart disease (440-447)	M	3,134	2,937 3,091 3,067	2,460	3,013	3,3,3,3,3,3,3,3,3,3,3,3,3,3,3,3,3,3,3,	3,139	2,869	3,103
	her diseases of heart (430-434)	H	1,354	1,727	2,44,1 1,23,443 4,5443	1,169	1,425 1,706 1,444 1,651 1,444 1,270	1,242	1,420	1,246
	Other diseases of heart (430–434)	M	1,691	1,757 1,516 2,018	1,651	1,597	1,784 1,800 1,800 2,157 2,308 1,782	1,645	1,894	1,602
	Myocardial degeneration (422)	Ţ,	9,993	10,825 9,606 11,037	9,035 9,035 8,801	12,237	8,908 9,843 9,675 11,266 7,586 10,133	9,768	10,409	10,617
	Myoc degene (42	M	10,235	10,715 9,903 11,820	9,723 9,723 8,474	12,981	9,040 9,639 10,413 12,157 10,462 9,954 7,328	9,216	10,444	11,195
	Arteriosclerotic heart disease (420)	H	7,351	8,907 8,545 7,677	6,496 7,153 7,068	6,846	7,511 8,255 9,183 7,118 9,172 6,289 7,240	7,976	7,356	7,165
	Arterioscle heart dis (420)	M	13,970	15,160 15,113 14,534 17,348	12,011 12,832 14,376	13,792	14,280 15,306 16,267 13,402 15,404 11,908 14,428	15,375	14,338	13,807
I	Chronic rheumatic heart disease and chronic endocarditis (410–416, 421)	H	1,035	840 1,050 1,154	1,139	977	1,168 1,059 1,175 1,124 966 993 1,258	1,083	1,015	909
	Chronic r heart dis chronic er (410–41	M	966	823 1,004 848	952 832 1,149	1,171	1,117 1,083 1,108 1,115 874 1,247	1,046	950	860 943
	Vascular lesions affecting central nervous system (330–334)	Ľ4	11,317	13,546 12,918 13,090	10,932 10,722 9,438	11,126	10,802 12,922 13,548 13,462 11,678 11,156	11,846	11,114	11,997
	Vascula affecting nervous (330-	M	11,608	14,472 13,780 13,523 11,616	12,005 10,757 9,265 10,844	12,620	11,041 14,194 14,933 13,676 12,712 12,425 8,509	12,336	11,869	12,448 11,068
	All causes	Ħ	57,339	62,309 60,086 64,286 55,591	57,696 53,333 53,557 52,868	56,549	58,210 62,961 63,484 65,414 62,345 58,941 53,878	58,130	56,072	56,728 56,466
	All c	M	79,897	81,757 83,177 88,163 75,537	80,365 72,607 78,263 74,340	77,208	83,417 85,333 88,480 89,676 91,000 84,138 78,980	82,579	80,744	79,136
			ENGLAND AND WALES	Regions: Northern East and West Ridings North Western North Midland	Midland Eastern London and South Eastern Southern	South Western Wales (including Monmouth-shire)	Conurbations Tyneside West Yorkshire South East Lancashire Merseyside West Midlands Greater London	Areas outside conurbations: Urban areas with populations of 100,000 and over Urban areas with populations of	50,000 and under 100,000 Urban areas with populations	under 50,000

The death rates from myocardial degeneration show in the older age-group an urban/rural gradient opposite to that for arteriosclerotic heart disease, with mortality highest in the rural districts. In the 45–64 year age-group the position is more confused but the same tendency is discernible. How much of these urban and rural differences are attributable to differing diagnostic practice in town and country is not known, but the table below shows the death rates from the two causes combined.

Type of area		heart dise degen	on living from ase and meration s. 420, 422)	
	45-	-64	65 and	i over
	М	F	М	F
Conurbations	3,628	938	23,320	16,419
Urban areas with populations of 100,000 and over	3,733	1,064	24,591	17,743
under 100,000	3,525 3,514 3,005	1,045 1,041 950	24,781 25,202 24,279	17,765 17,783 18,119

There is a tendency for the death rate to be lower in the bigger urban areas among women of 65 and over, and this trend was possibly reversed in males aged 45-64.

There was no urban/rural gradient for death rates from vascular lesions of the nervous system or from other diseases of the heart.

Broadly, these urban/rural relationships are similar to those revealed in the area mortality analysis of 1950-53.*

Congenital malformations of the circulatory system

During 1957 there were 2,037 deaths attributed to congenital malformations of the circulatory system; 1,126 of these were of males and 911 of females. As might have been expected, a large proportion (63 per cent) of these deaths took place during the first year of life, 35 per cent during the first four weeks.

The table below shows the crude death rate per million living attributed to this group of causes for each year from 1940.

	Deat	h rate	per mill	ion living	,		Dea	th rate	per mil	lion living	g
			M	F	P				M	F	P
1940 1941 1942	••	• •	58 58 63	36 37 39	46 46 50	1949 1950 1951			51 55 50	41 43 42	46 49 46
1943 1944 1945	• •		63 71 66	40 39 41	50 53 52	1952 1953 1954		• • • • • • • • • • • • • • • • • • • •	42 43 45	35 34 33	39 39 39
1946 1947 1948	• •	••	62 64 53	41 47 39	51 55 45	1955 1956 1957		• •	47 47 52	33 34 39	40 40 45

^{*}The Registrar General's Decennial Supplement, England and Wales, 1951. Area Mortality. H.M.S.O. London, price £3 10s. net.

The death rates in 1957 were lower than nearly all those recorded between 1940 and 1951. This was due to a coding change in 1951 which altered the assignment of deaths attributed to ruptured congenital cerebral aneurysm from "Other circulatory malformations" (I.S.C. No. 745.6) to "Subarachnoid haemorrhage" (I.S.C. No. 330).

However, from 1952 the change, though small, appears to be in an upward direction. With disease of this nature, where the causes, whatever they may be, are pre-natal, there can be little doubt that the increase in the death rates for the older age-groups (Table LXXIX, page 158) is largely the result of changing diagnostic fashion, although other factors may play their part. Two of these deserve mention. The use of antibiotics will prevent some patients with congenital heart disease from dying of subacute bacterial endocarditis or other intercurrent infection. These patients, whose deaths previously may have been assigned to the infection, may now die later from the primary condition, thus causing a small increase in the number of deaths. Secondly, the introduction of cardiac surgery for some severe congenital defects, although in most cases of great benefit to the patient, is accompanied by some small operative mortality, and it is possible that these few deaths may cause an apparent small increase in mortality from a rare condition.

Infant deaths, on the other hand, may reflect any small changes in incidence that are occurring, although here again caution must be exercised in interpretation because of improvement in diagnosis.

Between 1952 and 1957 there was a 17 per cent increase in deaths of children under one year assigned to congenital malformations of the circulatory system. Much of this increase was the result of a coincident increase in the birth rate and expressing these figures as an infant mortality rate the increase is somewhat smaller; it rose from 1.63 per 1,000 live births in 1952 to 1.77 in 1957, an increase of 9 per cent. Furthermore, the trend in the rate over the intervening years fluctuates considerably and is not so definitely upwards.

During the same period there was no increase in infant mortality from congenital malformations as a whole, and this finding adds weight to the hypothesis that any small increase may have been the result of improvement in diagnosis, or alternatively the result of improvement in the care of the sickly new-born child, allowing it to remain alive for a longer period, and thus giving more time for a firm diagnosis to be made. Examination of the age at death of infants suffering from congenital heart disease in 1952 and 1957 is shown in the table below:

		19	52	19	57
Age at death		Deaths	Rate per thousand live births	Deaths	Rate per thousand live births
Under 1 week	• •	429 205 461 1,095	0·64 0·30 0·68 1·63	454 257 567 1,278	0·63 0·36 0·78 1·77

From this table it appears that the increase in the rate has not taken place at the earliest age, as would have been expected if the increase in the infant mortality rate had been the result of an increase in incidence of the disease. It would be unwise, therefore, to assume that any increase is taking place in the incidence of congenital heart disease without considerable further evidence.

Table LXXIX. Congenital malformations of the circulatory system (I.S.C. No. 754): Deaths and death rates per million living, by sex and age, 1951 to 1957, England and Wales

Age	1951	51	19	1952	1953	53	1954	4	1955		1956	9	1957	7:
Ago	M	H	M	Ľ	M	Ħ	M	H	M	IL	M	H	M	L
						Deaths	ls							
All ages	1,050	963	890	804	913	984	948	167	1,007	756	1,017	791	1,126	911
-0	582	444	604	491	623	491	647	514	645	430	219	909	725	553
	78	09	56	89	09	49	48	28	08	9/	58	. 59	71	09
5-	58	. 35	42	51	51	37	50	42	53	55	09	49	89	. 55
15-	177	167	132	111	1117	106	122	87	144	1115	132	102	140	1115
45-	126	180	40	56	46	. 58	09	45	19	58	65	53	94	95
65 and over	29	77	16	27	16	30	21	21	18	22	25	22	28	33
						Death rate	Death rates per million living*	on living*						
All ages	49.9	42.3	42.2	35.2	43.1	34.3	44.5	33.4	47.1	32.8	47.3	34.2	52.0	39.2
-0	1.67	1.35	1.75	1.50	1.77	1.48	1.87	1.57	1.88	1.33	1.88	1.49	1.95	1.58
1-	49.8	40.2	38.4	48.9	43.1	48.2	35.3	44.8	59.4	59.2	43.3	46.3	52.6	46.8
5-	18.9	11.9	13.1	16.5	15.4	9.11	14.8	13.0	15.4	16.7	17.1	14.6	19.2	16.2
15-	19.3	.17.7	14.5	11.8	12.9	11.4	13.6	9.42	16.0	12.5	-14.8	11.2	15.7	12.7
45-	25.7	31.7	8.00	92.6	9.05	10.0	11.6	69.1	12.8	9.81	12.2	8 · 88	17.4	15.8
65 and over	14.7	26.9	8.01	9.23	7.98	10.1	10.4	6.93	8.85	7.15	12.2	7.03	13.5	10.3
			*	'At ages u	inder 1 ye	ar, per th	*At ages under 1 year, per thousand live birth occurrences	e birth oc	currences.					

Table LXXX (page 160) shows the number of deaths assigned to congenital malformations of the circulatory system in the five-year period 1953–57, by age, sex, and detailed cause of death. Unfortunately, 63 per cent of the deaths were assigned to "Other and unspecified malformations of the heart", the majority being unspecified, but certain factors concerning the more specific causes are worthy of comment.

The table below shows the ratios of male to female deaths for individual malformations at ages 0-4 and 5 and over.

I.S.C. No.	Cause of death	All ages	Under 5	5 and over
754·0 754·1 754·2 754·3 754·4 754·4	Tetralogy of Fallot	1·35 1·09 1·05 0·84 1·29 1·21	1·35 1·21 1·08 1·27 1·30 1·27	1·33 0·70 0·96 0·54 1·24 1·04
754·6 754·5, 754·6 754	Other circulatory malformations All circulatory malformations All circulatory malformations	1·68 1·67 1·25	1·19 1·88 1·57 1·29	1·42 1·79 1·15

The all-ages sex ratio shows a predominance of male deaths for each individual cause with the exception of interauricular septal defect. However, for all forms of congenital heart disease male deaths predominate in the 0-4 year age-group. Above that age the position is not so clear, but in all cases the male/female ratio of deaths is less than in the 0-4 year age-group. It would appear, therefore, that congenital heart defects are, as a general rule, more severe in their effects in the male, causing death earlier. This is particularly noticeable with patent ductus arteriosus and interauricular septal defects. These two conditions are generally considered to be commoner in females.* The male preponderance of early infant deaths may be the result of more multiple defects.

A rather different picture emerges with coarctation of the aorta. There is a male predominance in deaths which increase from a ratio of 1·19 for deaths under five years of age to 2·07 for deaths over that age. It will be seen in Table LXXX that after a high mortality in the first year of life, death from the condition becomes relatively rare until early adult life. Bedford and Brown (loc cit.) state that there are two types of coarctation of the aorta. The first is an infantile type, with a diffuse narrowing of the aortic isthmus, often associated with other cardiac malformation, and usually incompatible with other than a short duration of life. The second, or adult type, consisting of an abrupt hour-glass constriction of the aorta is often symptomless until early or middle adult life. It would seem from the mortality picture presented in Table LXXX that these two types of coarctation may have somewhat different sex ratios.

^{*}Bedford, D. E. and Brown, J. W. The British Encyclopaedia of Medical Practice, 1951, Vol. 6, p. 244. Butterworths, London.

Table LXXX. Deaths from congenital malformations of the circulatory system (I.S.C. No. 754) and its subdivisions, by sex and age, 1953-57, England and Wales

Other circulatory malformations	.5) (754·6)	H	182	97	7	9	38	. 25	6	
		M	306	184	11	17	48	34	12	
ation		Ţ.	185	80	5	11	63	24		
Coarctation of aorta	(754.5)	M	308	93	00	25	136	38	∞	
r and cified nations eart	1.4)	Ţ	2,503	1,714	207	136	251	131	. 64	
Other and unspecified malformations of heart	(754.4)	M	3,218	2,304	191	149	323	188	63	
icular lefect	.3)	H	372	128	24	14	84	. 87	35	
Interauricular septal defect	(754.3)	M	312	176	17	15	50	41	13	
tricular	.2)	.2)	H	332	214	21	27	34	26	10
Interventricular septal defect	(754.2)	M	347	229	25	16	46	23	00	
	(1)	Ħ	269	190	16	13	30	12	00	
Patent ductus arteriosus	(754-1)	M	294	237	. 13	6	25	9	4.	
logy	(0.	H	168	71	37	31	25	4	1	
Tetralogy of Fallot	(754.0)	M	226	94	52	51	27	2	1	
enital nations the atory	(4)	[II]	4,011	2,494	317	238	525	309	128	
Congenital malformations of the circulatory system (754)		M	5,011	3,317	317	282	655	332	108	
Age	All ages	-0	1	5-	15-	45-	65 and over			

International comparison of infant mortality rates from congenital malformations of the circulatory system

The table below shows the infant mortality rates (per 1,000 live births) for certain countries from all congenital malformations in 1953, and from congenital malformations of the circulatory system during various periods between 1950 and 1954.

	All con		Cong malforr	enital nations	Percentage of deaths from all congenital malformations due to those of circulatory system		
Canada 1950–54 United States (Whites) 1950–53 Denmark 1951–54 Norway 1951–54 Netherlands 1950–54 Sweden 1952–53 England and Wales 1950–54 Scotland 1950–54 Northern Ireland 1950–54 Australia 1950–53 Japan 1951–54	M 5.32 4.34 5.48 3.81 4.96 3.55 4.32 5.25 6.32 4.25 2.32	F 5.05 3.77 4.32 2.77 4.69 3.34 4.25 4.83 5.88 3.31 1.88	M 2.08 2.06 2.62 1.32 1.92 1.79 1.77 2.14 1.80 1.04	F 1.68 1.59 2.13 1.19 1.59 1.46 1.46 1.43 1.65 1.39 0.69	M 39·3 47·5 53·3 37·7 39·3 44·1 39·3 32·9 35·7 44·2 42·5	F 32·8 41·5 52·1 39·0 31·8 42·2 34·0 27·5 26·6 40·0 47·2	

^{*}All rates in these columns are for 1953 only.

As with all international comparisons, care has to be taken in the interpretation of tables of this nature. For example, it may be that the low infant mortality rate from congenital malformations in Japan was due in large part to differences in diagnostic practice. The high rate in Denmark may have resulted from the extensive researches of the Institute of Human Genetics at Copenhagen, making doctors more aware of the problems of congenital disease. With these reservations in mind, the general similarity of the international comparisons is apparent, suggesting that the effect of pre-natal influences is basically similar in all countries. The ratio of the infant mortality rate in males to that of females is between 1·20 and 1·30 in all countries shown, with the exception of Norway and Sweden where it was 1·11 and 1·09 respectively, and for Japan where it was 1·51. These exceptions may have been the result of differences in diagnostic practice, though it is possible that they may result from real differences in incidence of one or more of the individual defects.

ACCIDENTAL AND VIOLENT DEATHS

There were 21,561 deaths due to accidents and violence in 1957, compared with 21,870 in 1956 and 21,469 in 1955. The crude death rates, which were 604 per million living for males and 383 for females in 1956, decreased to 594 and 374 respectively. The three principal causes of accidental and violent death also showed decreased rates in 1957, except for female deaths from suicide and self-inflicted injury, as follows:

	Motor vehic	cle accidents	Accide	ntal falls	Suicide and self-inflicted injury		
	Males	Females	Males	Females	Males	Females	
1956 1957	174 170	56 53	99 92	149 142	149 146	90 92	

Table LXXXI. Accidents and violence: Proportion of deaths attributed to violent causes per 100 deaths from all causes, by sex and age, 1901–1945, and 1946 to 1957, England and Wales

	Males				. ,	Females					
-	All	0-	15-	35-	65 and over	All	0-	15-	35-	65 and over	
1901–10	5·05	3·22	12·88	7·22	2·31	2·31	2·85	3·06	2·18	1·54	
1911–20	5·69	3·74	15·69	7·16	2·29	2·31	2·95	2·97	2·26	1·63	
1921–30	5·48	4·43	15·49	7·06	2·37	2·49	3·06	4·02	2·74	1·79	
1931–35	6·05	5·60	20·29	7·37	2·55	3·04	4·11	5·54	3·31	2·25	
1936–40	7·30	7·30	29·58	8·67	2·89	4·10	5·73	9·52	4·82	2·83	
1941–45	9·13	10·34	46·29	9·46	2·85	4·56	8·25	12·26	5·58	2·74	
1946	5·08	7·86	25·39	6·09	2·22	3·00	5·91	5·84	3·45	2·27	
1947	4·89	7·65	24·86	6·09	2·14	2·97	5·86	5·53	3·55	2·22	
1948	4·88	8·91	24·61	6·04	2·13	3·02	7·06	5·56	3·70	2·18	
1949	4·62	9·47	27·04	5·87	1·96	2·72	7·02	5·80	3·34	2·01	
1950	4·56	9·20	30·36	5·93	1·94	2·80	7·24	6·59	3·44	2·13	
1951	4·42	10·22	34·74	5·68	1·85	2·73	7·36	8·21	3·42	2·06	
1952	4·65	10·28	37·65	5·97	1·91	2·84	7·67	9·46	3·58	2·11	
1953	4·75	9·63	38·86	6·18	2·13	3·09	7·43	10·10	4·01	2·35	
1954	4·86	9·49	39·22	6·33	2·35	3·40	7·00	12·20	4·14	2·75	
1955	4·84	10·44	43·29	6·21	2·24	3·39	7·91	12·81	4·35	2·68	
1956	4·85	9·90	43·90	6·36	2·32	3·50	7·70	13·78	4·71	2·76	
1957	4·83	9·30	43·18	6·24	2·28	3·50	7·13	13·97	4·62	2·77	

Table LXXXI (above) shows that there was a slight decrease in 1957 compared with the previous year in the percentage of male deaths which were attributed to violent causes, and this decrease was reflected in each of the age-groups shown. There was no change between 1956 and 1957 in the proportion of violent to total female deaths, the decreased percentages at ages 0–14 and 35–64 being offset by increased proportions at ages 15–34 and 65 and over.

Table LXXXII. Accidents and violence: Death rates per million living, by sex and age, 1901–1945, and 1946 to 1957, England and Wales

	-50,	170.		,							103		
	_	All	0-	5-	10-	15-	20-	25-	35-	45-	55-	65-	75 and over
]	Males							
1911–20 . 1921–30 . 1931–35 . 1936–40 .		827 857 709 770 968 ,167	1,231 934 683 697 775 897	329 395 375 370 420 612	262 304 243 228 297 435	447 596 449 533 651 935	555 902 584 739 1,121 2,192	677 828 536 602 826 1,263	914 894 658 640 825 870	1,257 1,082 917 921 1,046 1,008	1,623 1,395 1,259 1,271 1,475 1,323	1,818 1,715 1,616 1,599 1,835 1,691	2,621 2,757 2,842 3,358 3,887 3,183
1947 1948		622 628 562 569	688 664 585 547	328 381 318 299	251 228 179 194	414 398 350 386	565 528 458 509	453 465 398 387	478 465 406 433	582 633 574 583	864 850 844 805	1,136	2,612 2,786 2,320 2,554
1949*		567	541	298	193	386	508	387	431	579	797	1,085	2,556
1951* 1952*		562 591 568 582	461 487 473 418	252 259 217 215	153 190 167 151	376 362 415 373	555 608 643 603	423 474 445 446	418 429 436 429	579 591 546 583	807 814 796 822	1,120 1,137 1,092 1,198	2,451 2,745 2,450 2,811
1955* 1956*		593 605 604 594	393 386 392 351	168 207 173 168	161 181 151 156	369 444 410 456	580 671 608 644	426 446 442 421	445 444 428 456	583 567 578 566		1,256 1,243 1,259 1,197	3,214 3,166 3,320 3,126
]	Female	es						
1911–20 1921–30 1931–35 1936–40 1941–45		329 300 283 346 477 499	1,059 767 487 505 570 687	226 234 182 201 230 322	81 98 71 81 137 206	103 117 117 142 222 256	111 120 127 155 233 274 86	135 127 126 161 235 276	198 179 168 194 281 307	307 272 268 297 412 404 225	423 382 397 443 595 552 351	752 728 716 878 1,116 959 661	2,287 2,364 2,516 3,044 3,707 3,064 2,725
1947 1948		334 306 306	503 434 387	162 153 128	63 63 63	82 72 81	81 76 92	109 99 85	145 137 128	237 231 212	356 347 336	703 614 617	2,707 2,341 2,513
1949*		302	378	128	63	79	92	81	126	212	330	612	2,492
1951* 1952*		308 321 298 329	338 350 330 319	127 96 100 94	47 45 50 62	80 88 77 73	81 87 86 86	79 85 85 88	125 126 120 139	223 228 213 232	323 327 322 349	606 648 604 670	2,698 2,803 2,406 2,727
1955*		358 370 383 374	264 300 284 279	86 94 87 83	48 59 52 45	81 94 76 79	90 85 91 98	107 96 101 103	138 143 140 145	239 241 260 258	357 377 412 396	783 775 764 762	3,066 3,128 3,242 2,991

^{*} According to the Sixth Revision of the International Classification. Other years according to the classification in use at the time.

Table LXXXII (above) shows the death rates from violent and accidental causes per million living. The "all ages" death rates were lower in 1957 for both males and females than in the preceding year. For boys aged 0-4 and girls aged 5-9, the rates were the lowest recorded in the table. There was an increase in the rate for young men aged 15-19 from 410 in 1956 to 456 in 1957; this was the highest rate to occur in this age-group since 1945. Among people of both sexes aged 45 and over, the rates were slightly lower in 1957 than in the year before.

Motor and other vehicle accidents

In 1957 there were 3,608 male and 1,219 female deaths due to accidents involving motor vehicles on public highways; this was a total decrease of 112 deaths compared with 1956. These accidents involved the deaths of 1,972 pedestrians and 496 pedal cyclists. In addition, 65 male and 6 female deaths were attributed to motor vehicle accidents occurring elsewhere than on public highways. There were 419 deaths of riders of motorcycles in accidents not involving collision; male deaths from this cause have increased year by year from 133 in 1949 to 387 in 1957.

Table LXXXIII. Motor vehicle accidents: Death rates per million living, by sex and age, and comparative mortality indices by sex, 1931–1945, and 1946 to 1957, England and Wales

		All	0-	10-	15-	20-	25-	35-	45-	55-	65-	75 and over	C.M.I.† (1938 =1·00)
						Mal	es						
1931–35		208	184	93	204	368	210	133	153	206	363	678	1·12
1936–40		216	159	86	176	363	209	152	171	257	411	749	1·01
1941–45		199	198	113	152	227	193	149	160	228	353	556	0·92
1946		153	144	109	161	205	139	109	102	160	241	498	0·73
1947		146	134	75	127	209	139	106	111	147	246	460	0·70
1948		126	135	63	122	173	112	79	97	142	194	400	0·60
1949		140	123	80	147	226	117	103	101	137	229	451	0·67
1949*		142	126	83	150	232	118	105	101	138	232	454	0.68
1950*	• • • • • • • • • • • • • • • • • • • •	151	104	60	177	279	164	106	102	153	242	439	0·72
1951*		161	112	88	178	308	174	112	117	160	231	505	0·77
1952*		149	105	73	165	301	150	123	105	144	219	403	0·71
1953*		158	98	61	170	307	164	110	126	160	245	518	0·75
1954*	• •	161	77	57	194	323	165	116	127	170	259	564	0·76
1955*		171	83	64	234	388	170	125	130	164	273	540	0·81
1956*		174	86	61	236	344	182	121	138	185	270	587	0·83
1957*		170	74	58	254	378	164	130	125	166	263	604	0·81
						Fema	les						
1931–35	••	68	106	34	49	50	31	29	49	95	181	267	1·17
1936–40		64	84	30	49	48	29	27	45	85	173	279	1·02
1941–45		56	106	42	42	40	29	26	37	61	107	172	0·86
1946	••	47	72	30	36	27	21	20	27	56	100	185	0·70
1947		47	71	26	37	23	17	22	33	54	100	177	0·69
1948		43	79	31	25	16	14	19	21	49	101	157	0·64
1949		41	65	32	32	30	10	16	22	44	95	151	0·60
1949*		41	66	32	32	30	10	16	22	44	95	151	0.61
1950*	••	46	64	25	40	30	17	19	35	48	84	200	0·67
1951*		49	58	22	47	37	19	23	35	54	101	198	0·71
1952*		42	52	21	34	31	19	18	28	43	94	168	0·62
1953*		45	56	25	36	37	16	18	33	49	87	181	0·65
1954*	***	51	45	15	36	37	23	23	32	63	120	218	0·72
1955*		55	52	26	58	45	22	26	32	57	121	235	0·78
1956*		56	47	22	42	40	26	26	38	63	129	236	0·79
1957*		53	42	22	42	46	24	22	37	59	117	222	0·74

^{*} According to the Sixth Revision of the International Classification (Nos. E810–E835). Other years according to the classification in use at the time.

[†] C.M.I.s are based on civilian deaths and civilian populations for the years 1940-1949 inclusive.

The death rates per million living due to motor vehicle accidents are shown in Table LXXXIII (page 164). At ages 0–9 the rates reached the low levels of 74 for boys and 42 for girls. At the other end of life, the rate of 604 for old men aged 75 and over was the highest since 628 was reached in this age-group in 1942. Female rates at ages 25 and over were lower in 1957 than in the preceding year, but at ages 20–24 the rate of 46 was the highest since 1941, when it was 50.

Table LXXXIV. Motor vehicle accidents: Death rates per million living, in standard regions, conurbations, and urban and rural aggregates outside the conurbations, 1957, England and Wales

(Based on deaths according to area of normal residence)

]	Males				F	emale	S	
	All ages	0-	15-	45-	65 and over	All ages	0-	15	45-	65 and over
ENGLAND AND WALES	170	68	199	142	374	53	35	30	47	156
Conurbations (excluding Greater London)	167	77	187	127	457	60	36	26	60	204
Greater London	146	51	144	130	448	49	19	24	43	174
Areas outside conurbations: Urban areas with populations of 100,000 and over	160	78	163	141	417	57	40	24	51	191
Urban areas with populations of 50,000 and under 100,000	151	50	188	130	300	55	37	33	41	167
Urban areas with populations under 50,000	163	64	196	141	327	46	37	28	38	118
Rural districts	212	81	284	176	306	54	43	43	46	112
Regions:										
Northern	187	101	221	138	396	59	71	39	40	144
East and West Ridings	157	64	183	135	349	58	37	24	53	208
North Western	167	79	185	130	428	57	36	31	49	185
North Midland	188	82	227	172	335	51	37	29	44	157
Midland	188	46	240	147	466	58	39	36	56	171
Eastern	179	56	232	169	283	48	31	25	50	129
London and South Eastern (excluding Greater London)	157	38	186	148	325	49	34	27	44	118
Southern	183	44	238	153	348	65	31	58	47	159
South Western	181	100	223	148	283	39	29	22	40	87
Wales (including Monmouthshire)	161	117	177	122	302	44	44	19	43	116

Table LXXXIV (page 165) shows death rates from motor vehicle accidents per million living by sex and age in the standard regions and urban and rural aggregates, based on the area of usual residence of the deceased. For males the "all ages" rate was highest, 188 per million, in the North Midland and Midland regions, and lowest, 157 per million, in the East and West Ridings and in the London and South Eastern region (excluding Greater London, where the rate was 146). The highest "all ages" female rate of 65 per million occurred in the Southern region and the lowest, 39, in the South Western region. The death rates in the conurbations and urban and rural aggregates, as percentages of the corresponding England and Wales rate, were as follows:

			Males]	Female	s	
	All	0-	15-	45-	65 and over	All ages	0-	15~	45	65 and over
England and Wales	100	100	100	100	100	100	100	100	100	100
Conurbations (excluding Greater London) Greater London Areas outside conurbations: Urban areas with populations	98 86	113 75	94 72	89 92	122 120	113 92	103 54	87 80	128 91	131 112
of 100,000 and over	94	115	82	99	111	108	114	80	109	122
Urban areas with populations of 50,000 and under 100,000	89	74	94	92	80	104	106	110	87	107
Urban areas with populations under 50,000 Rural districts	96 125	94 119	98 143	99 124	87 82	87 102	106 123	93 143	81 98	76 72

This table shows the excessive rates for males aged under 65 and females aged under 45 in the rural districts. For people aged 65 and over high death rates were associated with a high degree of urbanisation. Rates for children aged under 15 were above the national level in the conurbations, excluding Greater London, and in the aggregate of large urban areas (populations of 100,000 and over).

Table LXXXV (page 167) shows the numbers of deaths resulting from motor vehicle accidents in 1957, according to the nature of the injury received. Of a total of 4,898 deaths, 2,534 (52 per cent) were due to fractures involving the bones of the head, alone or in conjunction with fractures of other bones. In addition, 566 deaths (12 per cent) were due to head injuries not involving fractures.

Fractures of the spine and trunk bones accounted for 527 deaths (11 per cent) and internal injuries of chest, abdomen, and pelvis for 611 deaths (12 per cent).

Table LXXXVI (page 168) shows the numbers of deaths from motor and road vehicle accidents according to the type of road user. Deaths of pedestrians in motor vehicle accidents on public highways, which had increased during 1952–56, showed a decrease in 1957 to 1,219 for males and 753 for females. There were 1,179 deaths of male motorcyclists in motor vehicle traffic accidents, compared with 1,132 in 1956.

Table LXXXV. Motor vehicle accidents (I.S.C. Nos. E810-E835): Deaths by sex according to nature of injury and external cause, 1957, England and Wales

		Remainder of E810- E835	E
		Dother non-collision motor vehicle traffic accident	25. E. 3. 3. 3. 3. 3. 3. 3. 3. 3. 3. 3. 3. 3.
vumoers)		E823 involving running off roadway	23 23 23 23 23 24 10 10 10 10 10 10 10 10 10 10 10 10 10
External cause of injury (and International Classincation Numbers)	SLN	to rider of involving motorcycle, overturning in involving roadway	89
rnational Cla	MOTOR VEHICLE TRAFFIC ACCIDENTS	E821 to rider of motorcycle, not involving collision	387 256 27 27 27 27 27 27 27 27 27 27 27 27 27
ry (and Inter	E TRAFFI	E816 Other motor vehicle traffic accident involving two or more more whole with two or more motor vehicles	130 130 131 131 131 131 131 131 131 131
cause of inju	R VEHICI	E814 E815 to rider or passenger passenger of motoreycle, whicle	20 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0
External	MOTO	E814 to rider or passenger of or in collision with non-motor vehicle or object	24 24-1 c c 4
		E813 to pecal cyclist	24 24 24 24 24 24 24 24 24 24 24 24
		E812 to pedestrian	1.219 1.219
		Total deaths in motor vehicle accidents	2.5.2.1 2.5.2.1 2.5.2.1 2.5.2.2 2.5.2 2.5.2
		Nature of injury	Fracture of skull
		Intl. Classn. Nos.	AN 138 AN 140 AN 141 AN 141 AN 143 AN 144 AN 145 AN 148 AN 148 AN 148 AN 148 AN 149

nable LAAAAVI. Deaths of pedestrians, pedal cyclists, motorcyclists, motor vehicle occupants, and others in motor vehicle traffic accidents, motor vehicle non-traffic accidents, and other road vehicle accidents, by sex, 1941–45, 1946–49, and 1949 to 1957, England and Wales	Dea n-traff	ins or	peae	strian S, and	s, peds	r road	usts, n d vehic	otor ele a	cyclist	ts, mo	tor ve.	hicle 1941	occup 45,	ants, 1946	and of 49, a	hers i	n mot 49 to	or veh 1957,	icle tr Engl	affic and a	accid nd W	cidents, Wales
	1941–45 (annual average)	45 nual nge)	1946-49 (annual average)	ual ige)	1949	6	1950		1951	_	1952	6)	1953	53	1954	**	1955		1956		1957	
	M	H	M	দ	M	ĬΤΙ	M	Ľ	M	压	M	Į.	M	ĬΤ	M	ц	M	H	M	Į į	M	F
Pedestrians: Motor vehicle	2,073	868	1,295	706	1,214	674	1,140	726	1,302	725	1,099	693	1,182	674	1,201	807	1,210	813	1,275	844	1,219	753
					13	7	32	9	43	10	54	00	32	10	55	00	52	6	47	6	40	9
accidents	166	70	79	47	19	51	9/	51	59	43	73	31	48	56	57	27	43	31	45	59	38	22
Pedal cyclists: Motor vehicle traffic accidents Motor vehicle non-	557	140	464	98	496	78	475	08	473	08	443	74	461	73	457	79	437	84	458	19	428	89
traffic accidents					1	1	1	I	ĺ	1	1	1	1	1	1	I	1	1	-	1	2	1
accidents	230	51	159	29	157	30	168	31	160	18	125	31	113	30	126	23	131	19	101	6	126	21
Motor vehicle Motor vehicle traffic accidents Motor vehicle non-	651	27	629	48	733	56	979	79	1,019	46	1,002	78	1,040	95	1,049	70	1,179	89	1,132	88	1,179	96
traffic accidents					9	1	7	1	3	i	10	-	10	-	00	1	18	1	85	1	82	1
Motor vehicle occu- pants and others: Motor vehicle					900	9		4				:										
Motor vehicle non-	762	167	549	155	498	118	202	150	499	700	469	143	542	179	582	202	726	270	790	285	782	302
traffic accidents J					20		48	7	27	٠,	70	3	75	-	71	1	33	7	31	4	18	1
accidents	47	=	26	9	32	7	20	13	19	7	31	14	20	10	15	10	17	9	11	30	9	7
									-													

Suicides

There were 3,170 male and 2,145 female deaths attributed to suicide in 1957, compared with an average over the previous five years of 3,049 and 1,835 respectively. In 1957 the "all ages" rates per million were 146 for males and 92 for females. Domestic gas was employed by 42 per cent of the male and 56 per cent of the female suicides; the "all ages" rates for suicide, using this agent, were 65 and 52 per million respectively.

Table LXXXVII. Suicide: Death rates per million living, by sex and age, and comparative mortality indices by sex, 1901–1945, and 1946 to 1957, England and Wales

	All	0-	10-	15-	20-	25-	35-	45-	55-	65-	75 and over	C.M.I.* (1938 =1·00)
					Mal	les						
1901–10	. 130 . 166 . 196	$\begin{bmatrix} 1 \\ -0 \\ - \end{bmatrix}$	4 3 2 2 2 2 3	36 32 31 40 32 43	91 69 78 96 89 72	152 122 111 140 118 100	252 196 211 210 177 128	397 278 346 379 284 185	523 389 487 542 462 271	508 405 513 533 477 347	382 350 438 483 466 382	1·17 0·90 1·04 1·14 0·95 0·66
1947 1948 1949	. 138 . 136 . 144 . 144 . 136		5 3 2 1 1	31 35 29 32 30	49 59 74 60 60	94 94 86 80 70	154 123 134 134 122	200 209 219 236 222	300 314 338 334 323	391 382 469 422 416	465 480 388 490 421	0·72 0·71 0·76 0·76 0·71
1952 1953 1954	. 135 . 132 . 142 . 149 . 143	distributed of the control of the co	6 1 1 3 4	24 34 28 26 26	53 55 67 59 54	78 78 89 93 97	120 120 126 145 130	213 198 222 235 213	303 320 325 340 322	410 389 411 430 422	477 413 480 439 463	0·70 0·69 0·74 0·78 0·74
1055	. 149 . 146	-	2 2	25 27	65 60	94 94	130 135	221 217	350 344	426 404	490 475	0·77 0·75
					Fem	ales						
1911–20	. 49 . 47 . 63 . 80 . 79 . 62		3 2 1 0 1 1	34 30 25 23 14 9	45 41 43 49 38 22	56 50 57 77 65 52	81 74 87 108 99 77	109 100 135 154 155 108	108 102 143 166 169 128	88 81 108 134 142 117	49 52 63 84 89 73	0·75 0·69 0·84 1·01 0·98 0·74
1947 1948 1949	74 76 78 75 70		1 - 1 1	15 10 11 15 10	26 28 20 26 23	53 51 50 45 34	87 80 80 77 75	135 134 141 127 124	157 160 183 165 157	146 166 173 165 153	92 114 98 138 115	0·89 0·90 0·93 0·89 0·82
1952 1953	72 68 76 76 81 84		 1 3 1	9 11 10 12 7	20 12 22 23 19	38 35 39 52 45	66 66 79 77 75	135 118 127 135 148	160 154 167 167 190	167 164 171 198 201	105 97 127 130 126	0·84 0·79 0·89 0·95 0·97
1956 1957	90 92	-	1 1	11 12	27 30	49 47	71 80	156 145	203 214	217 230	141 136	1·04 1·06

^{*} C.M.I.s are based on civilian deaths and civilian populations for the years 1940-1949 inclusive.

Table LXXXVII (page 169) shows the long-term trend in suicide rates by sex and age since 1901. From 1949 onwards the male rates in each year have increased with age, the highest rate occurring in men aged 75 and over. The highest female rate has occurred at ages 65–74 each year from 1951 onwards. The male rates at ages 45 and over were somewhat lower in 1957 than in the previous year. Female rates in the age-groups 55–64 and 65–74 increased during 1952–57 from 154 to 214 and from 164 to 230 respectively.

The sex-ratios of male to female rates in corresponding age-groups in 1957 were:

20-	25-	35-	45-	55-	65-	75 and over
2.0	2.0	1.7	1.5	1.6	1.8	3.5

Table LXXXVIII. Suicide: Proportions per 1,000 deaths according to external agent, by sex and age, 1953-57, England and Wales

						,				
		M	lales	ŧ			Fe	emales		
	All ages 15 and over	15-	35-	55-	75 and over	All ages 15 and over	15-	35-	55-	75 and over
Domestic gas poisoning	424	431	429	408	465	560	566	562	556	568
Other poisoning	126	146	152	111	66	206	193	218	201	198
Hanging or strangulation	181	181	171	192	169	64	63	66	64	60
Drowning	87	41	73	106	124	105	68	97	119	105
Firearms or explosives	65	85	70	62	40	5	15	7	2	3
Cutting and piercing instruments	50	26	38	61	82	14	16	11	17	12
Jumping from high place	22	23	20	21	31	26	29	22	26	43
Other agents	44	68	48	38	22	19	49	18	15	11
Total	1,000	1,000	1,000	1,000	1,000	1,000	1,000	1,000	1,000	1,000
Total number of suicides	15,608	2,065	5,488	6,525	1,530	9,759	977	3,526	4,520	736

Table LXXXVIII (above) shows, for the years 1953-57, the proportions in which various external agents were used by persons committing suicide. Poisoning by domestic gas was the most common means used, the proportion per 1,000 deaths by suicide varying between 408 and 465 among men in the age-groups shown, and among women between 556 and 568. Other forms of poisoning also were used by women more than men, so that for all forms of poisoning the proportion per 1,000 deaths by suicide was 776 for women as compared with 550 for men. Proportionately more men than women resorted to hanging and strangulation, firearms and explosives, and cutting and piercing instruments.

Table LXXXIX. Suicide: Deaths by sex, age and marital condition, 1957, England and Wales

					Males					Female	s	
		Persons	Total	Single	Married	Widowed and divorced	Not stated	Total	Single	Married	Widowed and divorced	Not stated
All ages		5,315	3,170	324	915	249	1,682	2,145	409	1,109	620	7
10-14		4	3	3	-		majorites	1	1			
15-19		53	37	33			4	16	16	-		_
20-24		122	81	30	15	en.co	36	41	22.	18		1
25-29		203	134	33	22		79	69	23	42	4	
30-34		225	150	29	47	2	72	75	15	55	3	2
35-39	••	313	195	18	57	4	116	118	20	96	2	
40-44		365	226	16	80	7	123	139	24	98	16	1
45-49		511	315	34	112	11	158	196	41	130	24	-1
50-54		646	367	30	131	15	191	279	. 36	190	52	1
5559		. 736	428	35	161	26	206	308	53	178	77	
60-64		630	350	23	106	29	192	280	60	135	85	_
65-69		573	316	16	88	33	179	257	46	99	112	
70–74		453	248	15	53	45	135	205	30	48	127	
75–79		309	197	6	28	41	122	112	11	16	84	1
80–84		125	86	3	14	24	45	39	10	3	26	
8589		43	34		1	12	21	9	1	1	7	
90-94		3	2		-		2	1		-	1	_
95 and o	ver	1	1	-	-	_	1			-	_	

In Table LXXXIX (above) deaths from suicide in 1957 are analysed by sex, age, and marital status. It has been noticed that in England and Wales single and divorced people have considerably higher admission rates to mental hospitals than widowed people, and the rate is lowest among married people. If social isolation is a factor contributing to the higher admission rates of single and divorced persons, it seems likely that it may influence suicide rates also. For intercensal years the distributions of widowed and divorced people in the general population are not known, so that separate suicide rates cannot be produced for the two groups. Also, the marital status of 1,682 male suicides out of 3,170 was not stated, so that death rates by marital status would have little meaning (see page 45). The suicide rates for females per million total population are shown in Table XC (page 172). In each age-group the rate for single women exceeded that for the married. The rates for widowed and divorced women at ages 25–44, being based on small numbers of deaths, must be treated with reserve. At ages 45 and over, the rates for both the single and the widowed and divorced groups exceeded those for married women, and except at ages 60–69 the rates were highest among the widowed and divorced.

Table XC. Suicide: Death rates of females by age and marital condition per million total population, 1957, England and Wales

	Total	Single	Married	Widowed and divorced
15 and over	92	45	96	238
15–19	12	12	property.	-
20–24	30	37	24	-
25–29	47	87	35	444
30–34	48	87	42	107
35–39	73	117	69	39
40-44	86	151	72	198
45-49	118	197	97	222
50–54	174	161	156	325
55–59	211	259	176	317
60–64	218	317	174	264
65–69	232	274	187	273
70–74	227	219	146	291
75 and over	136	113	85	157

Accidents in the home and residential institutions

There were 6,667 deaths due to accidents in the home or in residential institutions in 1957, 2,419 male and 4,248 female. They formed 19 per cent of the male and 49 per cent of the female deaths due to accidents and violence.

Table XCI (page 173) shows the numbers of deaths which were assigned to accidents in the home or in residential institutions in 1956 and 1957, and the death rates per million living. The highest rates occurred among persons aged 75 and over, not only for all such accidents combined, but also for each type of accident shown in the table, although not for the residual group of "other" accidents. For all types of domestic accident together, the death rate in this age-group was 5·3 times as high for males as it was at ages 65–74, and 6·9 times for females.

In 1957 there were 736 deaths assigned to burns and scalds, 644 of which were due to accidents which happened at home or in a residential institution. Altogether in the five years 1953–57 there were 3,377 such deaths. In 1957 there were 90 deaths of children under 5 and 250 deaths of people aged 75 and over assigned to burns and scalds received on domestic premises.

Table XCII (page 174) shows the numbers of deaths by month of occurrence during 1952–1957. In 1957 there were 3,583 deaths during the "winter" months of January to March and October to December, compared with 2,870 in the "summer" months of April to September. This pattern of "winter" excess was followed in most of the major individual causes. For gas poisoning, for example, the numbers in 1957 were 480 and 249; for falls on the same level, 650 and 585; for suffocation by inhalation and ingestion of food, 191 and 118.

Accidents in the home and residential institutions: Deaths and death rates per million living, by sex and age, 1956 and 1957, England and Wales Table XCI.

Other accidents in the home and residential institutions (rem. E870–E936) Females Males Females 0.3 0.5 Unspecified falls 1,421 %18 818 ,192 (E904) Males Females 9.0 Fall on same level 5.4 (E)03) 0.7 Males Death rates per million living Fall on stairs, from ladders, and from one level to another (E900-E902) Females 8.0 8.3 0.0 Deaths Males Females Burns and scalds (E916, E917) Males Poisoning by utility (illuminating) Females 2.4 131 gas (E890) Males All accidents in the home and residential institutions (E870–E936) Females 1,392 2,485 2,298 Males ,727 All ages 75 and over ages 75 and over 45-64 65-74 45-64 65-74 5-14 15-44 5-14 Alla Year

Table XCII. Accidents in the home and residential institutions: Deaths by month of occurrence, 1952-54 and 1955 to 1957, England and Wales

	Dec.	55 113 10	206 81 80 96	306 74 74	യനനയ	32338	375 99 88 88	365 154 195 143	onon	220 75 69 62
	Nov.	31 16 21 15	184 87 76 100	213 83 78 75	0.040	333	289 104 72 113	293 129 157 125	490-4	133 55 53
	Oct.	53 13 27	129 55 52 52 53	2888	77-62	333128	318 85 69 119	290 128 148 109	10	109 40 48 48
	Sep.	50 112 113	38	168 63 57	5427	8888	275 78 76 109	271 96 139 107	Euus.	65 16 18 27
	Aug.	118 118 23	26 36 36 26	175 60 50 61	onno	30. 21. 21.	257 78 95 110	217 104 131 93	32.96	67 116 119
PERSONS	July	44 71 8 8	71 24 34	155 56 45 60		97 30 36	26 25 28 28 28	249 124 1127	0446	28.028
PER	June	31 61 19	33883	132 45 46 46	4044	337	278 85 86 83	226 121 123 131	00mm	33333
	May	\$4 81 81 81	92 44 51 51	8,88,8	16	114 25 36 23	264 103 95	246 162 151 146	∞~~	17.04
	Apr.	04 05 20 24 24	131 47 60 63	174 58 62 69	22261	91 28 35	262 80 87 98	294 1154 129	0000	146 54 54 56
	Mar.	85 20 21 23	441 212 45 49	186 89 78	<u>4</u> eve	101 32 37 38	347 119 110	350 224 189 159	0-00	164
	Feb.	46 115 20	254 103 128 81	234 78 93 71	24 4	106 34 32	402 115 99	314 150 248 139	0.026-	299 120 49
	Jan.	42 21 15 26	230 123 89 87	246 106 101 103	L400	120 49 33 31	363 108 121	301 237 191		248 106 86 60
		1952–54 1955 1956 1956	1952–54 1955 1956 1956 1957	1952–54 1955 1956 1956	1952–54 1955 1956 1956	1952–54 1955 1956 1956	1952–54 1955 1956 1956	1952–54 1955 1956 1956	1952–54 1955 1956 1956	1952–54 1955 1956 1956
		:	:	:	:	:	:	:	:	Jo u
		:	:	:	:	ther	:	:	t	plosio
hte	cam	:	•	:	:	level to another	:	:	ic curre	ccident caused by fire and explosion of combustible material
o of death		:	:	:	:		:	:	electr	y fire
Sanso	Canal Canal	:	60	:	ders	по тс	level	ills	ed by	sed by
		gu	isonin	stairs	m lad	alls fre	same	ified fa	it caus	ustible
		Poisoning	Gas poisoning	Fall on stairs	Fall from ladders	Other falls from one	Fall on same level	Unspecified falls	Accident caused by electric current	Accident caused by combustible mater
1:5). O.	8888	3895	4	:	:	:	:	:	:
Intl.	Ž	E870-E888	E890-E895	E900	E901	E902	E903	E904	E914	E916

228	94 36 38	21 21 11	2559	1110	2467
7	0,400	7777		4	1,872 654 649 587
76 8 9 8	2775	25 17 171	117	42 8 111 20	1,464 550 583 593
21 2 9 11	36 36 28 28	52 113 113 113	15 4 4 7 2	46 10 17	1,447 487 500 535
4.01.21	75 75 75 75 75 75 75 75 75 75 75 75 75 7	2014	19	43 113 24 24	1,224 388 432 454
25.5	221751	84 01 10 10 10 10 10 10 10 10 10 10 10 10	8665	24 24 24 24 24	1,113 393 456 428
94 9	24 30 26	44 10 10 18	E v v v	47 119 111 25	1,158 422 411 465
28 10 8 8	253 18 18	72 22 22 22 23 24 25 25 25 25 25 25 25 25 25 25 25 25 25	218	45 22 24 24	1,143 455 448 472
1007	85 222 18 18	59 116 17	13 6 11	61 12 26 22	1,251 486 533 504
31	107 27 34 19	54 01 18	86.00	72 21 20 17	1,441 533 567 547
06 177	110 40 48 37	65 11 11	0408	22 24 10	1,648 735 612
35	107	67 26 7	0 /144	206 11 29 11	2,093 623 859 549
2222	110 36 41 39	13834	∞ ν.c.	30 113 13 14	1,902 864 725 707
1952–54 1955 1956 1956	1952–54 1955 1956 1956	1952–54 1955 1956 1956	1952–54 1955 1956 1956	1952–54 1955 1956 1956	1952–54 1955 1956 1957
osive	•	peq 1	:	:	residential
ot substance, corrosive	:	suffocation in	:	;	
bstanc	ion of food	offocat	:	:	ie and
hot su			nersion	:	e home
ed by	d inge	echani	d subm	dents	in th
t caus	on and	tal m	ng and	r acci	dents
Accident caused by harmonic liquid, steam	Inhalation and ingest	Accidental mechanical and cradle	Drowning and subme	Rem.E870- All other accidents E936	All accidents in the institutions
:	:	:	:	-078	
E917	E921	E924	E929	Rem.E E936	E870-E936

Table XCIII. Accidents in the home and residential institutions: Deaths by cause, sex, and age, 1957, England and Wales

Intl. Classn. Nos.	Cause of death	All ages	0-	5	15-	45-	65-	75 and over
E870-E888 E871 E872	Accidental poisoning by solid and MF Hiquid substances MF Accidental poisoning by barbituric MF acid and derivatives MF Accidental poisoning by aspirin and MF Salicylates	117 130 66 87 12 12	9 7 - 3 2	1	27 32 17 18 2 3	52 55 34 45 6 2	19 22 13 18 —	9 13 2 6 1 2
E890-E895	Accidental poisoning by gases and $\{M\}$ vapours	322 446	2 3	4	49 22	76 96	66 93	125 232
E900	Fall on stairs $\ldots \ldots {M \choose F}$	324 515	5	1	19 5	70 37	72 115	157 357
E901	Fall from ladders $\ldots \ldots {M \choose F}$	36 8	-	_	3	14	12	7 4
E902	Other falls from one level to another $\left\{ \begin{matrix} M \\ F \end{matrix} \right.$	169 215	18 16	4 2	21 7	17 12	31 35	78 143
E903	Fall on same level $$ ${M \choose F}$	317 947			2 2	18 29	64 113	233 802
E904	Unspecified falls $\binom{M}{F}$	441 1,193	3	2	5 4	24 41	88 173	319 971
E914	Accident caused by electric current $\ldots {M \choose F}$	37 19	8	6	20 8	3 8		-1
E916	Accident caused by fire and explosion M of combustible material F	169 391	20 42	12 31	16 32	27 66	23 70	71 150
	Burns by clothing $\binom{M}{F}$	40 261	4 30	4 23	4 22	7 46	6 45	15 95
	$\begin{array}{cccccccccccccccccccccccccccccccccccc$	8 101 4 42 5 44 20 52 3 22 28 29	1 10 1 3 1 2 1 11 -4	2 18 — — 2 2 1 — —	1 13 -2 -1 2 4 1 2 -3	15 1 9 1 11 5 9 	2 19 7 2 8 2 8 2 8 - 3 5	2 26 2 21 1 20 8 19 2 9 22 15
	Burns by conflagration $$ ${M \choose F}$	57 70	10 11	6 8	8 6	13 12	6 13	14 20
	Burns by other specified means $\ldots \left\{ egin{matrix} M \\ F \end{array} \right.$	44 31	6	2	4	6 7	6 2	20 20
E917	Burns by means not specified $\dots \begin{Bmatrix} M \\ F \end{Bmatrix}$ Accident caused by hot substance, $\begin{Bmatrix} M \\ F \end{Bmatrix}$ corrosive liquid, and steam $\dots \longmapsto \begin{Bmatrix} M \\ F \end{Bmatrix}$	- - 33 51	17 11	<u>-</u>	<u>-</u> 2 2	- 1 6	- 4 11	- 8 21
E921	Inhalation and ingestion of food M causing obstruction or suffocation F	186 135	120 80	1 5	19 7	22 16	13 15	11 12
E924	Accidental mechanical suffocation in M bed or cradle F	91 74	87 71	1	2 2	1 1		
E929	Accidental drowning and submersion ${M \choose F}$	34 40	15 15	1	3 3	5 9	5 10	5 3
Rem. E870-E936	Other accidents $\binom{M}{F}$	143 84	45 37	17 5	38 4	27 11	6 8	10 19
E870-E936	All accidents in the home and residential $\{M\}$ institutions $\{M\}$	2,419 4,248	349 288	51 45	226 130	357 388	403 669	1,033 2,728

Table XCIII (above) analyses the numbers of deaths due to accidents in the home and residential institutions by sex-age groups. Among children under 5 the principal causes of death were inhalation and ingestion of food causing

obstruction and suffocation, and accidental mechanical suffocation in bed or cradle; between them they accounted for the deaths of 207 boys and 151 girls, 59 and 52 per cent, respectively, of the total. The percentage distribution by cause at ages 15 and over was as follows:

Causes of accidental death	1.	5	45	5-	65	5-	75 and over	
Causes of accidental death	M	F	M	F	M	F	M	F
Poisoning (including gas) Falls Burns and scalds Suffocation (by food, or	34 22 8	41 14 26	36 40 8	39 31 19	21 66 7	17 66 12	13 77 8	9 83 6
mechanical) Other causes	9 27	7 12	6 10	7	3	2 3	1	0 2
Total	100	100	100	100	100	100	100	100

The proportion of male deaths due to accidental burns and scalds was roughly the same at different ages, but the proportion of female deaths declined with increasing age. The proportion of deaths of both sexes due to poisoning was much lower at 65 and over than at 15–64 years. The proportion of fatal falls increased with age reaching, at 75 and over, 77 per cent for males and 84 per cent for females.

Table XCIV. Accidents in the home and residential institutions: Deaths by cause and sex at age 65 and over, 1957, England and Wales

Intl.			Home		Reside	ntial instit	utions
Classn. Nos.	Cause of death	Males	Females	Persons	Males	Females	Persons
E870-E888 E871 E883 Rem. E870-E888 E890-E895 E890 Rem. E890-E895 E900 E901 E902 E903 E903 E904-E903 E910-E936 E916	Accidental poisoning by solid and liquid substances Accidental poisoning by barbituric acid and derivatives Accidental poisoning by corrosive aromatics, acids, and caustic alkalis Accidental poisoning by other solid and liquid substances Accidental poisoning by gases and vapours Accidental poisoning by utility (illuminating) gas Accidental poisoning by other gases and vapours Accidental foisoning by other gases and vapours Accidental falls Fall on stairs Fall from ladders Other falls from one level to another Fall on same level Unspecified falls Other accidents Accidents Accidents Accident caused by fire and explosion	28 15 1 12 191 183 8 835 217 18 80 193 327	33 23 2 8 323 316 7 2,182 451 7 110 648 966 297	61 38 3 20 514 499 15 3,017 668 25 190 841 1,293 431		2 1 1 2 2 2 - 534 21 - 68 267 178 24 3	2 1 1 2 2 760 33 3 1 1 97 371 258 46
E917 E921 E929 Rem. E910–E936	of combustible material Accident caused by hot substance, corrosive liquid, and steam Inhalation and ingestion of food causing obstruction or suffocation Accidental drowning and submersion Remainder of other accidents	89 11 15 9 10	217 29 19 13 19	306 40 34 22 29	5 1 9 1 6	3 8 10	4 17 1 16
E870-E936	All accidents in the home and residential institutions	1,188	2,835	4,023	248	562	810

Table XCIV (page 177) distinguishes, for people aged 65 and over, deaths due to accidents in the home from those in residential institutions. Two people died from accidental gas poisoning in the latter, compared with 514 at home. Twenty per cent of the fatal falls occurred in residential institutions. As the relative numbers of people living at home or in institutions are not available, the mortality rates for accidental falls cannot be compared.

Accidental falls

There were 5,296 deaths (1,991 males and 3,305 females) due to accidental falls in 1957. The "all ages" death rate was 92 per million for males and 142 for females; these rates were a slight improvement on those of 99 and 149 for 1956.

Table XCV. Accidental falls: Death rates per million living, by sex and age, and comparative mortality indices by sex, 1901–1945, and 1946 to 1957, England and Wales

			All ages	0-	10-	15-	20-	25-	35–	45-	55	65-	75 and over	C.M.I.† (1938 =1·00)
							Males							
1901-10 1911-20 1921-30 1931-35 1936-40 1941-45	•••	••	84 107 85 93 120 109	45 38 25 25 25 31 35	25 30 18 18 24 26	23 39 31 31 34 40	24 36 31 33 40 30	39 56 37 37 51 41	69 93 56 47 58 58	119 155 93 79 95 87	209 254 161 146 177 157	420 454 352 338 414 337	1,253 1,373 1,306 1,609 1,910 1,448	1·06 1·29 0·92 0·92 1·05 0·93
1946 1947 1948 1949	••		86 97 80 78	27 31 27 20	21 26 22 18	25 33 22 28	26 42 27 31	30 36 37 33	43 50 41 38	57 68 49 57	107 108 85 68	245 254 211 185	1,203 1,352 1,122 1,162	0·73 0·80 0·66 0·63
1949*			79	25	18	27	28	32	35	55	71	191	1,174	0.66
1950* 1951* 1952* 1953*	• •		74 86 79 84	14 17 16 14	18 17 17 10	19 17 23 22	25 34 30 29	29 35 30 30	34 40 30 33	50 51 47 52	71 85 78 80	183 241 221 246	1,139 1,275 1,169 1,254	0·61 0·71 0·64 0·68
1954* 1955* 1956* 1957*	••	•••	99 94 99 92	11 14 9 15	9 16 15 13	20 13 16 20	23 25 31 21	27 28 25 23	39 38 34 29	52 44 45 47	86 85 77 78	280 248 281 262	1,659 1,574 1,698 1,491	0·80 0·75 0·78 0·73
							Femal	es						
1901-10 1911-20 1921-30 1931-35 1936-40 1941-45	••	• • • • • • • • • • • • • • • • • • • •	68 69 73 100 136 118	27 20 13 14 18 17	6 4 5 6 8	4 5 4 3 4 5	4 5 4 3 5 6	10 8 5 6 6 6	26 20 10 8 12 11	50 31 30 34 26	132 108 85 92 123 81	389 356 318 388 476 346	1,657 1,752 1,845 2,283 2,714 2,135	0.88 0.83 0.75 0.90 1.11 0.85
1946 1947 1948 1949	••	••	110 111 100 105	15 11 11 10	4 7 4 6	3 9 4 3	5 4 4 2	6 4 3 2	6 5 4 4	11 15 18 13	59 58 51 50	260 286 231 232	2,037 1,947 1,726 1,840	0·76 0·75 0·66 0·69
1949*			105	12	6	4	1	2	5	15	51	230	1,822	0.69
1950* 1951* 1952* 1953*	::	• •	113 117 105 123	8 9 9 7	2 2 4	2 2 2 2 2	1 5 5 2	3 3 2 4	5 3 .5 5	14 12 11 15	45 46 44 50	230 240 218 241	1,994 2,034 1,743 2,018	0·73 0·75 0·66 0·75
1954* 1955* 1956* 1957*	••	••	141 144 149 . 142	6 8 8 9	3 3 2	3 2 2 1	1 -4 2	3 2 2 2 2	5 6 5 5	13 15 13 14	45 50 50 40	295 281 275 250	2,249 2,261 2,338 2,178	0·83 0·83 0·85 0·79

^{*} According to the Sixth Revision of the International Classification (Nos. E900–E904). Other years according to the classification in use at the time.

[†] C.M.I.s are based on civilian deaths and civilian populations for the years 1940-1949 inclusive.

Table XCV (page 178) shows the death rates per million by sex-age groups.

Table XCVI. Accidental falls: Annual average of deaths and percentage distribution by place of occurrence, 1953–57, England and Wales

Cause of death (and I.S.C. Nos.)	Total	Home*	Farm, mine or industrial premises	Place for recreation and sport	Other places
Fall from one level to another (E900–E902) { Deaths Per cent of total	1,737 100	1,263 73	233 13	16 1	225 13
Fall on same level (E903) { Deaths Per cent of total	1,575 100	1,190 76	8	7	370 23
Unspecified falls (E904) { Deaths Per cent of total	1,902 100	1,602 84	17	2	281 15

^{*} i.e. Homes and residential institutions.

Table XCVI (above) shows how deaths from accidental falls during 1953-57 were distributed according to place of occurrence.

MISCELLANEOUS

Infectious diseases-deaths occurring a long period after onset of disease

The rules for classification, given in the *International Statistical Classification of Diseases, Injuries and Causes of Death*, 1948, state that "when an acute infective disease classified in categories 040–043, 050, 055, 056, 058, 084–087, 100–108 is certified as the underlying cause of some other condition and the interval between its onset and death is stated to be one year or more, it is recommended that such deaths should be appropriately identified in tabulation". This practice is followed in England and Wales, and the deaths in question in 1957 are tabulated separately below. Five infectious diseases are involved: typhoid fever (2 deaths), scarlet fever (7 deaths), diphtheria (2 deaths), whooping cough (1 death), and measles (1 death).

Age at death	Interv	al between	onset of infe	ctious diseas	e and death	(years)					
Tigo at douth	1-4	1-4 5-9 10-19 20-29 30-3									
65 and over	,	_	Typhoid i	fever (040) —	-	1					
			Scarlet for	ever (050)							
15–44			3								
45-64					-	3					
65 and over	_		Granisma		, —	1					
65 and over	,	Contaminate	Diphther —	ria (055) —		2					
15–44			Whooping c	cough (056)	1						
5–14	_	1	Measle —	es (085) —	-						

Details of age, sex, other conditions on the death certificate, and the interval (in years) since the onset of the infectious disease are:

Age	Sex	Associated conditions	Interval (in years) since onset of infectious disease
		Typhoid fever	
70 79	F F	Intestinal obstruction; plastic peritonitis; adhesions Suppurative cholangitis; empyaema of gallbladder,	About 10
		chronic cholecystitis, cholelithiasis	. 59
		Scarlet fever	
25 31 32 61 62 64 75	M F F M F	Chronic nephritis	10 17 15 50 45 48 In childhood
		Diphtheria	
68 75	F F	Bronchiectasis; tracheal stenosis; rheumatoid arthritis Cardiac failure; valvular disease of heart; hemiplegia; cerebral embolism	As a child Years ago
		Whooping cough	
41	М	Bronchopneumonia; bronchiectasis; collapsed left lower lobe of lung; rheumatic heart disease; old inflammatory stenosis of the bronchus	In childhood
		Measles	
9	M	Bronchiectasis and pulmonary emphysema following post-morbilliform pneumonia	5

Deaths following vaccination or other prophylactic inoculation

This section includes deaths classified to E940–E942, vaccinia, post-vaccinal encephalitis, and other complications of smallpox vaccination, and to E943, E944, post-immunization jaundice and hepatitis, and other complications of prophylactic inoculation. Deaths classified to some other condition as the underlying cause, but with vaccination either mentioned on the certificate or ascertained by enquiry to have been associated with the death, are also included here.

In 1957 nine deaths were assigned to complications of vaccination against smallpox:

- 1. Female aged 7 weeks certified as post-vaccinal encephalitis.
- 2. Male aged 4 months certified as vaccinal encephalitis. There was, however, no evidence of encephalitis on pathological examination.
- 3. Male aged 5 months certified as Kaposi's varicelliform eruptions associated with vaccination.
- 4. Female aged 5 months certified as uraemia due to acute type I nephritis following vaccination, with agammaglobulinaemia as a contributory factor.

- 5. Female aged 5 months certified as tracheitis and pneumonitis due to dehydration from vomiting. Gastro-enteritis had caused loss of fluid due to vomiting, and infection had spread causing a tracheitis and pneumonitis. There had been recent vaccination of the left arm, but the connection between this and the gastro-enteritis was not made clear on the certificate.
- 6. Male aged 6 months certified as staphylococcal pyaemia due to secondary infected vaccinia following vaccination.
- 7. Female aged 17 months certified as encephalitis due to vaccinia, with infantile eczema as a contributory factor.
- 8. Male aged 49 years certified as post-vaccinal encephalitis.
- 9. Female aged 49 years certified as generalised carcinomatosis due to carcinoma of right breast and generalised vaccinia following vaccination.

There were five deaths assigned to complications of other prophylactic inoculations, three following injections of anti-tetanus toxin:

- 1. Male aged 10 years certified as anaphylactic shock following a prophylactic injection of anti-tetanus serum following a cut on the head.
- 2. Male aged 14 years certified as cardio-respiratory failure due to aspiration of vomitus due to anaphylactic shock, presumably due to injection of serum following adder bite.
- 3. Male aged 25 years certified as acute anaphylactic shock resulting from injections of anti-tetanus, or anti-gas gangrene, serum, following laceration of leg.
- 4. Female aged 25 years certified as anaphylactic shock following the injection of anti-tetanus serum following thumb injury.
- 5. Female aged 55 years certified as infective carditis due to chronic hepatitis suspected to be due to yellow fever serum administered prophylactically before a visit to the Far East in 1940.

Tetanus

Deaths from tetanus are assigned to I.S.C. Number 061 when the condition follows vaccination or a slight injury such as a scratch; if the injury is more serious the death is assigned to the injury. In 1957 there were 28 deaths, 23 male and 5 female, assigned to tetanus, and a further 18 deaths, 13 male and 5 female, where tetanus was mentioned in the statement of cause of death, but which were assigned to other causes. Details of all these deaths are given in Table XCVII (page 183).

Table XCVII. Deaths due to tetanus, by sex and age, showing cause of tetanus, 1957, England and Wales

(a) assigned to tetanus (I.S.C. No. 061)

Age	Sex	Cause of tetanus
1 year	M	Scratched wrist in fall
5 years	M	Tetanus*
6 ,,	M	Scratched eyelid
8 ,, 8 ,, 9 ,, 9 ,,	M	Splinter in knee
8 ,,	M	Crushed finger under culvert inspection lid
9 ,,	M	Grazed knee on tree stump
9 ,,	F	Grazed knee in fall
11 ,,	M	Splinter in leg
11 ,,	M	Leg grazed by stick of wood thrown in play
15 ,,	M	Tetanus*
19 ,, 22 ,, 32 ,, 34 ,,	M	Tetanus*
22 ,,	M	Tetanus*
32 ,,	M	Nail pierced foot
34 ,,	M	Piece of metal fell on leg
49	M	Tetanus*
50 ,,	M	Tetanus*
56 ,,	M	Cut finger
58 ,,	F	Crushed tip of right middle finger
62 ,,	M	Inhaled tetanus spores whilst gardening which infected old infarction of
***		left lung
63 ,,	F	Trod on nail in garden
64 ,,	M	Thorn entered thumb when sugar beeting
66 ,,	M	Splinter in thumb whilst at work
68	M	Hit finger with hammer whilst working in garden
72 ′′	M	Tetanus*
74	M	Scratched his hands whilst gardening
74	F	Tetanus*
80	M	Tetanus*
92	F	Pricked finger on a rose bush
,,	1 .	Tricked miger on a rose ousir

(b) assigned elsewhere

7 years	F	Fractured and lacerated forearm in fall in garden
8 ,,	M	Knocked down and run over by a motor bus whilst cycling
10 ,,	F	Wound in the back of the left thigh from fall from tree onto barbed wire
11	M	Burns from fireworks
21	M	Lacerated heel in collision with motor car
23	M	Amputation of toe by potato harvesting machine
26	M	Abrasions and burns to right ear and skull in motor accident
32 ,,	M	Wound of right ankle accidentally sustained in street affray
42	M	Contracted in hospital during appendicectomy
49 ,,	F	Lacerated right leg in fall at home
52 ,,	M	Contracted in hospital during operation for haemorrhoids
53 ,,	M	Following operation for fractured os calcis sustained in fall whilst gardening
54 ,,	M	Infected teeth
58 ,,	M	Lacerated hand in motor accident
67 ,,	F	Cut leg in fall at home
70 ',,	M	Gangrene of left foot
49 ,, 52 ,, 53 ,, 54 ,, 58 ,, 67 ,, 81 ,, 82 ,,	F	Cut and abrasion of left hand from fall in garden
82 ,,	M	Gangrene of right foot

^{*}No cause stated.

Table XCVIII. Deaths from encephalitis certified as secondary to infectious disease, by underlying cause, sex and age, 1955-57, England and Wales

		65 and over	1		1,1	11	77	. .		-	٦	1	1 1	11-	mw
		45-64	1		1	-	[-	1111			11		- 1	-04	41
	seases	10-14 15-24 25-44	1 1	- 1	1			l'	1 1	1		1	1 1	1-2	44
	tious d	15-24	1 1	7-						1			1 1	6	9
	Deaths from encephalitis secondary to infectious diseases	10–14	1 1	7-	1	110			-				-	 -42	200
	condary	5-9	[-	12		4	- -		-	1	- 1	1	[]	122	17 21
	alitis sec	4	[-	120	1 1		1 1	[]	1 1	1 1	11	1	1	111	62
	encepha	3-	-	4 κ	11	2	11	11	1 1	1		1			מימי
0	is from	2-	1 1	C1 00	11	7	11	1 -	11	1 [11	Reporter	1	11-	401
Englanu anu wates	Death			m vn	11		11	11	[]	1 1	11		1		49
iiu aiiu		-0	-4	2121	Broader C	11	[[11	11	11	1 1	_	121	9
rangia.		All	67	30	- 1	40	22	00	7	1-	- [77	1	134.6	61
	All	deaths	120	156	- 2	13	135	10	351 488	18	36	3,953	2,270	2,310	7,029 6,976
	,		MH	FE	MH	ZL	Z'L	MF	MH	ZH	MH	MH	Z		N.
			:	:	:	:	:	:	:	:	:	:	esta-	, but	
			:	:	:	:	:	:	:	Other diseases attributable to viruses	:	:	Influenza with other respiratory manifesta-	nous, and mineriza unqualmed Influenza with nervous manifestations, but without digestive or respiratory symptoms	•
	Cause of death		:	:	:	:	:		:	ole to	:	ia	irator	nons, and mineriza unquamied ifluenza with nervous manifestat vithout digestive or respiratory s	tal
	ise of		:	*	. :	:	:	:		butak	ions	ımonı	r resp	ous n	Total
	S		ıgh						atitis	attri	infect	pne	othe	nerv tive o	
			ig coi	•	•	. xo	oster		s hep	eases	sngu	with	with	with diges	
			Whooping cough	Measles	Rubella	Chickenpox	Herpes zoster	Mumps	Infectious hepatitis	er dis	Other fungus infections	Influenza with pneumonia	uenza	nfluenza with nervor without digestive or	
			Wh	Me	Rui	Chi	Her	Mu	Infe	Oth	Oth	Infl	Infl	Infl	
	Intl. Classn.	No.	950	085	980	180	880	680	092	960	134	480	481	483	

Deaths from encephalitis certified as secondary to infectious disease

Table XCVIII (page 184) shows the numbers and sex-age distribution of deaths in which an infectious disease was the underlying cause but where encephalitis was also mentioned. The latter condition may have appeared in Part I of the certificate of cause of death as a complication of the infectious illness or in Part II as a condition contributing to the death. The total numbers of deaths assigned to the infectious diseases in question are shown for comparison. Measles, chickenpox, mumps, and influenza with nervous manifestations were the diseases in which encephalitis occurred most frequently as a secondary cause of death; the proportion of deaths from these diseases in which encephalitis occurred varied from about 1 in every 2 for influenza with nervous manifestations to about 1 in 5 for mumps. Encephalitis was also stated to be a secondary cause in about 1 in every 30 deaths assigned to herpes zoster or whooping cough, but only in 1 out of over 400 of the deaths assigned to infectious hepatitis. The proportion of deaths classified to influenza unqualified or influenza with pneumonia or other respiratory manifestations where encephalitis occurred was relatively insignificant—1 in more than 1,700.

Deaths in institutions

Table XCIX (page 186) analyses deaths registered in England and Wales in 1957 by sex, cause of death, and the type of place where death took place. Of the total of 514,870 deaths registered, 255,333 (more than 49 per cent) took place in institutions; 211,989 (41 per cent) in hospitals (non-mental) belonging to the National Health Service, 13,356 (less than 1 per cent) in other non-mental hospitals or nursing homes, 14,470 (about 3 per cent) in mental or mental deficiency hospitals belonging to the National Health Service, and 14,928 (3 per cent) in "other institutions", such as homes for the aged, schools, prisons, etc. Of the remainder, 235,640 people (46 per cent of the total deaths) died in their own homes and 23,897 (5 per cent) in other private houses or elsewhere.

Table XCIX. Deaths by cause and sex according to type of institution, etc., in which they occurred, 1957, England and Wales

In other private houses	places	Tr.	10,645 72 26 2 2 20	-	6100	13	1 1-	1,966	29	881	745	98	15	021 44 01 84 84 84 84 84 84 84 84 84 84 84 84 84	50
In	pla	M	13,252 108 45 45 47	1	10	6	1-11	728	12	322 254	72	34	30	69 33 7 7	6
eased s own	ne	H	115,381 842 417 43 203	1	43	109	17	19,642	304	8,297	8,052	666	571 113 87	1,763 690 231 703 36	513
At deceased	home	M	1,783 1,783 1,213 1,213 350	3	44	105	23	23,153	099	9,355	2,795	096	810 58 114	1,082 650 33 33 67	232
Other	SILOUIT	H	8,202 20 20 4 2 2 6	ł	1	7		895	25	352	405	42	£ ∞ €	24 1178 1178	25
Po :	ningir -	M	6,726 23 23 1 1	1	1-		1	787	42	323	142	44	15	35 - 4	=
75 4	Other than N.H.S.	II.	8,960 28 7 7	1	1-	6	1	1,954	22	779	821	115	56 18 15	227	25
itals and ns for the sick	Other th.	M	4,396 32 32 7 5	I	1-	100	1	1,139	31	430	220	80	45	36 20 20 10 11 11 11 11 11 11 11 11 11 11 11 11	=
Other hospitals and institutions for the care of the sick	Š	ı	96,744 1,510 589 205 156		29	325	39	19,778	282	7,475	986'9	1,575	1,441	2,102 346 289 1,231 104 132	969
Orth	N.H.S.	M	2,964 2,964 1,725 1,725 415	2	38	350	39	24,490	200	8,816	3,329	1,582	1,805 251 251 251	1,143 303 43 617 64 116	454
pu	Other than N.H.S.	Ľ,	358	1	General Control	-	11	14	I	7	6	2	-	!!!!	7
pitals a ficienc tals	Other the N.H.S.	M	232	1			11	15	-	44	3	-		111111	-
Mental hospitals and mental deficiency hospitals	.S.	H	8,173 114 55 111 26	-	ε 4	15	11	604	7	212	235	56	222	109 15 25 49 9	18
Mer	N.H.S.	M	6,297 188 110 111 47	[-	18	1	480	13	178	54	42	21 9	53 10 23 88 98	=
leaths		H	248,463 2,588 1,099 271 413	1	223	479	58	44,853	699	17,998	17,253	2,875	2,164	4,246 1,120 590 2,124 1,56 2,56	1,329
Total deaths		M	266,407 5,144 3,150 264 879	2	224	494	65	50,792	1,259	19,428	6,615	2,743	2,727	2,429 1,011 89 1,013 1,013 204	729
Total	Classn. No.		001-138 001-008 010-019 020-029	030-039	040-049	080-096 080-096 100-108	120-117	140-239	140-148	150-159	170-181	190-199	200–205 210–229 230–239	240-289 240-245 250-254 260 270-277 280-289	290-299
	Cause of death		Infective and parasite diseases Tuberculosis, respiratory system Tuberculosis, other forms Syphilis and its sequelate Syphilis and its sequelate	diseases meeting and other voices		Spirochaetal diseases, except syphilis Diseases attributable to viruses Typhus and other rickettsial diseases	Malaria Other infective and parasitic diseases	Neoplasms Malignant members of bused courts and			Malionant neonlasm of other and unespecified	Sites Neoplasm of lymphatic and haematonoietic	tissues Benign neoplasm Neoplasm of unspecified nature	Allergic, erdocrine system, metabolic, and nutritional diseases. Diseases of thyroid gland Diseases of other endocrine glands Diseases of other endocrine glands Avitaminoses, and other metabolic diseases	Diseases of the blood and blood-forming organs

12821	1,643	1 1 1 6	4,469 3,316 203 203 444 245	57	728 101 268 320 339	106 35 7 7 38	100 76 21	1	3-6 2	1 7
60 -	605	56	6,736 160 5,967 276 197	34	721 1113 1189 346 71	70 29 13 13 15	38 32 38	ı	1 111:	111
118 77 115 26	21,367	173 676 6	51,539 2,267 37,641 2,138 5,604 3,444	419	10,424 41 1,814 3,195 4,834 540	1,276 15 322 28 115 389 407	1,070	00	24 24 15	111
23	15,005	154 655 6 6 16	53,144 1,363 42,569 1,727 4,343 2,880	249	17,401 28 1,985 3,155 10,590 1,643	1,155 498 498 113 245 251	1,670 775 234 661	1	1 1111	111.
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347 259 14 74	33,257	1,774 33 1 23 124	95,783 2,989 72,113 4,745 8,792 5,954	1,112	37,625 68 3,553 11,616 18,962 3,426	8,330 3,693 1,806 1,446	7,431 2,345 1,335 3,751	ı		11
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Mental, psychoneurotic, and personality disorders Psychoses Psychoses Psychoneurotic disorders Disorders of character, behaviour, & intelligence	Diseases of the nervous system and sense organs Vascular lesions affecting central nervous system (iseases of central nervous inflammatory diseases of central nervous		Diseases of the circulatory system Rheumatic fever Chronic rheumatic heart disease Arteriosclerotic and degenerative heart disease Other diseases of heart Hypertensive disease Diseases of arteries Diseases of veins and other diseases of cir-	latory system	Diseases of the respiratory system Acute upper respiratory infections Influenza Freumonia Brouchtiss Other diseases of respiratory system	Diseases of the digestive system Diseases of bucal cavity and oesophagus Diseases of the stomach and duodenum Appendicitis Herma of adodominal cavity Other diseases of intestines and peritoneum Diseases of liver, gallbladder and pancreas	Diseases of the genito-urinary system Nephritis and nephrosis Other diseases of urinary system Diseases of male genital organs Diseases of hreast over Fellorian the and		: 6°::::	Delivery with specified complication Complications of the puerperium

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	Cause of death		Diseases of the skin and cellular tissue Infection of skin and subcutaneous tissue Other diseases of skin and subcutaneous tissue	Diseases of the bones and organs of movement Arrhritis and rheumatism, except rheumatic	Osteomyelitis and other diseases of bone and	joint Other diseases of musculoskeletal system	Congenital malformations	Certain diseases of early infancy		Symptoms, seniity, and ill-defined conditions Symptoms referable to systems or organs Seniity and ill-defined diseases	Accidents, poisonings, and violence (external cause) Railway accidents Motor vehicle traffic accidents Motor vehicle non-traffic accidents Other road vehicle accidents Other road vehicle accidents Auter transport accidents Accidental poisoning by solid and liquid substances Accidental poisoning by gases and vapours. Accidental poisoning by gases and vapours. Accidental poisoning by gases and vapours. Complications due to non-therapeutic medical and surgical procedures Therapeutic model procedures I are effects of injury and poisoning Late effects of injury and poisoning Monicide and climitical night other persons (not im wan) Injury resulting from operations of war

There were 95,645 deaths due to neoplasms, of which 42,795 (45 per cent) took place in the deceased person's own home, and 44,268 (46 per cent) in non-mental hospitals in the National Health Service. Respiratory tuberculosis caused 11 per thousand of the deaths in mental and mental deficiency hospitals belonging to the National Health Service, 11 per thousand of the deaths in non-mental hospitals, and seven per thousand of the deaths occurring at the person's own home. Arteriosclerotic and degenerative heart disease was the main cause of death in mental and mental deficiency hospitals, 38 per cent of the deaths being so assigned, compared with 15 per cent of the deaths in non-mental hospitals of the National Health Service.

Mortality analysis by method of certification

Table C (page 190) shows the number of deaths in 1957 for 47 groups of causes, according to the basis of diagnosis, whether by certifying medical practitioner, coroner's certificate, or uncertified. Of the total of 514,870 deaths, 75,161 were registered on the basis of a coroner's certificate after inquest or on the results of a post-mortem examination ordered by a coroner without an inquest. In 65,003 (86 per cent) of these deaths, a post-mortem examination was held.

Of the 437,575 deaths registered on a certificate from a medical practitioner, post-mortem examinations were held in 45,651 cases (10 per cent). In another 10,037, an operation or other examination was mentioned on the death certificate. There were 2,134 uncertified deaths, of which 1,379 (65 per cent) were assigned to arteriosclerotic and degenerative heart disease.

The proportion of all deaths certified after post-mortem was 21 per cent. Of deaths assigned to malignant neoplasms there had been a post-mortem in 14 per cent. For young children whose deaths were assigned to birth injuries, post-natal asphyxia and atelectasis (I.S.C. Nos. 760–762) the proportion certified after post-mortem was 56 per cent, and for those assigned to infections of the newborn (I.S.C. Nos. 763–768) 68 per cent.

Table C. Deaths by cause and sex, according to method of certification, 1957, England and Wales

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		After	post-mortem	M	25,850 1	385	36	42	133	5,994	151	1,602	384	3,348 415 378 307
		- t		Ľ,	19,491	103	37	9 - 0	19	1,196	92	2,568	521	6,986 136 378 574
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	1	ths		<u> </u>	8,463	1,099 271 413 7	15 4 55 90	83	496	43,961	2,124	43,132	5,228	63,170 5,173 6,914 3,794
		Total deaths		M	266,407 248,463	3,150 264 879 11	11 33 94	143 1 54 3	498	50,056 4 736 4	1,013	30,537 4	2,989	72,113 6 4,745 5,368 3,424
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		Cause of death			All causes	Tuberculosis of respiratory system Puberculosis, other forms Syphilis and its sequelae Typhoid fever Dysentcry, all forms	Scarlet fever and streptococcal sore throat Diphtheria Whooping cough	Acute poliomyelitis Smallpox Measles Malaria	and parasitic	Malignant neoplasms Benign and unspecified neoplasms	Diabetes mellitus Anaemias	system	Rheumatic fever Chronic rheumatic heart disease	disease Other diseases of heart Hypertension with heart disease Hypertension without mention of heart
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3,558 3,568 3,568 3,568 1,442 1,442 1,442 1,442 1,2,345 2,2,345 2,2,852 2,2,852 2,2,842 2,2,842 2,2,842 3,647 1,842 1,84	218
480-483 490-493 500-502 540, 541 550, 561, 543, 701, 543, 701, 543, 701, 543, 701, 640-652, 660, 660, 670-689 750-789 760-789 760-789 760-789 760-788	\\ \begin{align*} \be
Influenza Pneumonia Brouchitis Ulcer of stomach and duodenum Appendicitis Intestinal obstruction and hernia Gastritis, duodenitis, enteritis and colitis, except diarrhoea of the newborn Circhosis of liver Nephritis and nephrosis Hyperplasia of prostate Complications of pregnancy, childbirth, and the puerperium Congenital malformations Birth injuries, post-matal asphaia and attectasis Infections of the newborn Other diseases peculiar to early infancy Senility, ill-defined and unknown causes Motor vehicle accidents All other diseases Motor vehicle accidents Suicide and self-inficred injury	Homicide and operations of war

Table CI. Deaths under, or connected with the administration of, various anaesthetics, by sex and age, 1957, England and Wales

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Table CI—continued

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Anaesthetic agent, or combination	nbination	n of age	of agents, as stated on the coroner's certificate	tated o	n the co	oroner's	certific	cate	ages	-0	2-	15-	25-	35~	45-	55-	65 and over
hidine, thiopentone, and xylocaine	locaine	:	:	:		:	:	11		1	and the same of th	enepen .	-	The same	1	-	1
caine	:	:	:	:	:	:	:	Z ::	77	1 1	1-1	-	1-	1-	1 1	1 1	e
dium thiopentone dium thiopentone and tubarine	ine	::	::	::	:;	::	::	. : :				-11	-11	-11	111		111
iopentone	:	:	:	:	:		:	Z#	6,	1	1	-	-	Arrest Street	1	٦٢	4"
iopentone and tubarine	:	:	:		:	:		Z		1 1	H	1		- [-	4 1	۱ ،
arme	:		:		:			: ند)		ĺ	1	1	-	1,	1	1	
pocurarine	:	:		:	:			Σ;	-1	1	1.	į	-	-	-	**	1
locaine	:	•:	:	:	:	:	:	Z :	-4	1-	- 1	1 1	1 1	1 1	-	1 1	97
aesthetic (not stated)	:	:	:	:	:	:		¥± :	∞ σ	7	11	1-	1.1	- 1	11	c1	7.0
			Total	:	:	:		(M	241	18	91	421	9 13	13	23.33	50	106
				_				- J	209	10	7	12	13	2	٥		23

Live births, stillbirths and stillbirth rates by age and parity of mother and place of confinement

In England and Wales in 1957 there were 739,996 live and still births, 23,256 more than in the previous year. Table CII below gives details of the distribution of these births by place of confinement.

Table CII. Births by place of confinement, 1957, England and Wales

Place of confinement		Live births	Still- births	Total births	Total births per cent by place of confinement*	Stillbirth rate per 1,000 total births*
At home		435,253 27,279 243,765 17,084	12,923 341 3,091 260	448,176 27,620 246,856 17,344	60·6 (60·4) 3·7 (3·9) 33·4 (33·3) 2·3 (2·4)	28·8 (29·2) 12·3 (13·2) 12·5 (13·1) 15·0 (15·6)
Total		723,381	16,615	739,996	100.0	22.5 (22.9)

^{*} The figures in brackets are the corresponding figures for 1956.

The distribution of births by place of confinement was almost the same as in 1956, just over 60 per cent of births in National Health Service hospitals, and 33 per cent at home.

The fall in the overall stillbirth rate in 1957 compared with 1956 occurred in all places of confinement. The stillbirth rate was highest in National Health Service hospitals, for it is in those hospitals that many of the more difficult confinements take place.

Table CIII (page 199) gives the number of live births, Table CIV the number of stillbirths (page 199) and Table CV (page 200) the percentage distribution of births for each place of confinement of mother. These data are given for a summarised age and parity distribution of mother, parity in this instance meaning the number of previous liveborn children. In these tables all illegitimate births have been included as first-born children because, although no information about parity of the mother is obtained at the registration of an illegitimate birth, it can be assumed that the majority are first-born.

Just under 80 per cent of first children were born in National Health Service hospitals. Whatever the age of the mother, second and later children were, by comparison, born more frequently at home.

Table CVI (page 200) gives details of the stillbirth rates per 1,000 total births by age and parity of mother according to place of confinement. It emphasizes the high risk of stillbirth to mothers over the age of 35, the rate being particularly high for first-born children, falling for the second to fourth births and rising again for fifth and subsequent births.

The very high stillbirth rate for children born to mothers of unstated age suggests that this group is of abnormal constitution.

Table CVII (page 201) shows stillbirth rates per 1,000 total births by parity of mother and place of confinement in the standard regions of England and Wales. The table below compares the ratio of the stillbirth rate in National Health Service hospitals to that at home, with the total stillbirth rate in the region.

The general tendency is for the highest stillbirth rates to occur in those regions with the lowest ratios of stillbirth rates in hospital to stillbirth rates at home. There is no relationship between the ratio of the rates and that of the number of live births in hospital to the number of births at home.

Standard region	Ratio of	Regional	Ratio of number of
	stillbirth rate	stillbirth rate	births in hospital
	in hospital to	per 1,000	to number of
	rate at home	total births	births at home
Northern North Western Wales I Wales II East and West Ridings Midland North Midland South Western Eastern London and South Eastern Southern	2·29 1·83 1·62 2·67 2·38 2·50 2·54 2·64 2·30	26 26 26 24 23 23 22 21 20 20	1·44 1·97 1·73 3·76 1·58 1·49 1·37 1·77 1·24 2·85 1·69

A set of tables is available for reference at the General Register Office showing numbers of live and still births with a breakdown as in Tables CIII and CIV for individual county boroughs and administrative counties within England and Wales. A copy of these tables, or of a table for a particular area, can also be obtained from the General Register Office on payment.

Table CIII. Live births by age and parity* of mother and place of confinement, 1957, England and Wales Note. Institutions described as Non-N.H.S. hospitals are mainly maternity homes.

		Other	17,084 9,536 6,827 679 42
	al	At	243,765 1 64,198 141,784 37,147 636
	Total	Non- N.H.S. hospital	8,808 14,930 3,502 3,99
		N.H.S. hospital	435,253 169,802 209,993 54,673 785
		Other	389 232 133 1
	over	At	31,681 807 17,896 12,891 87
	4 and over	Non- N.H.S. hospital	799 17 411 371
mother		N.H.S. hospital	22,934 417 10,998 11,456 63
Parity of mother		Other	8,076 3,335 4,323 400 18
	3	At	37,770 106,370 21,799 21,799
	1-3	Non- N.H.S. hospital	2,653 9,104 2,531 18
		N.H.S. hospital	38,891 104,106 29,888 256
		Other	8,619 6,178 2,272 146 23
	,	At	45,762 25,621 17,518 2,457 166
	0	Non- N.H.S. hospital	12,174 6,138 5,415 600 21
		N.H.S. hospital	239,178 130,494 13,329 13,329
	Age-group		All ages Under 25 35 and over Not stated

* Parity in this instance means the number of previous liveborn children.

Table CIV. Stillbirths by age and parity* of mother and place of confinement, 1957, England and Wales Note. Institutions described as Non-N.H.S. hospitals are mainly maternity homes.

								Parity of	Parity of mother							
		0				1–3	3			4 and over	over			Total	al	
	N.H.S. hospital	Non- N.H.S. hospital	At	Other	N.H.S. hospital	Non- N.H.S. hospital	At	Other	N.H.S. hospital	Non- N.H.S. hospital	At	Other	N.H.S. hospital	Non- N.H.S. hospital	At	Other
:	865'9	189	889	173	5,017	136	1,696	76	1,308	16	206	11	12,923	341	3,091	260
	3,040 2,835 660 63	788 738 4	450 320 88 31	34	2,866 1,363 14	252	1,038 372	02888	112 511 781 4	1901	240 258 3	187	3,826 6,212 2,804 81	109 160 57 5	734 1,598 718 41	121 82 23 34

* Parity in this instance means the number of previous liveborn children.

Table CV. Percentage distribution of births for each place of confinement within each age and parity* group, 1957, England and Wales

Note. Institutions described as Non-N.H.S. hospitals are mainly maternity homes.

								Parity of	Parity of mother							
Age-group		0				1-3	6			4 and over	over			Total	al	
	N.H.S. hospital	Non- N.H.S. hospital	At	Other	N.H.S. hospital	Non- N.H.S. hospital	At	Other	N.H.S. hospital	Non- N.H.S. hospital	At	Other	N.H.S. hospital	Non- N.H.S. hospital	At	Other
All ages	78	4	15	60	48	4	46	2	42	1	99	1	61	4	33	2
Under 25 25 35 and over Not stated	77 79 80 86	4440	15 15 24	40-1-	448 39 39	10 to 10 to	45 39 55	40-0	44.33		527.2	7mm7	68 56 57 52	0440	258 88 40 40	40-v

* Parity in this instance means the number of previous liveborn children.

Table CVI. Stillbirth rates per 1,000 total births, by age and parity* of mother and place of confinement, 1957, England and Wales Note. Institutions described as Non-N.H.S. hospitals are mainly maternity homes.

		t Other	13 15 11 13 11 12 19 33 61 447
	Total	At	H9
	T	Non- N.H.S. hospital	12 12 11 19 114
		N.H.S. hospital	2 5554
		Other	1 20 1 3 2 8
	over	At	16. 13. 20. 33.
	4 and over	Non- N.H.S. hospital	20 74 50
Parity of mother		N.H.S. hospital	2 84490
Parity of		Other	9 9118 1
		Athome	10 10 17 18
	1-3	Non- N.H.S. hospital	9 9 8 E E E
		N.H.S. hospital	82 27,423
		Other	20 16 13 52 596
		At home	19 17 18 18 18 157
	0	Non- N.H.S. hospital	15 14 14 37 160
		N.H.S. hospital	23 28 47 119
	dn		: ::::
	Age-group		All ages Under 25 25- 35 and over Not stated

* Parity in this instance means the number of previous liveborn children,

Table CVII. Stillbirth rates per 1,000 total births, by parity* of mother and place of confinement, 1957, England and Wales, Standard Regions and Wales

Note. Institutions described as Non-N.H.S. hospitals are mainly maternity homes.

		IstoT	22		26	. 23	26	22	23	20	20	19	21	26	56	24
		Other	15		13	12	18	16	17	0	22	13	13	14	13	17
	Total	At home	13		16	12	14	12	13	11	10	10	11	18	18	91
		.S.H.N-noN Issiqsod	12	10.000	11	12	13	==	5	16	14	12	90	12	13	1
		.S.H.N latiqsod	26		34	32	32	30	31	53	23	26	28	31	33	26
		IstoT	32		34	36	34	31	32	33	28	24	32	35	39	26
	4	Other	28		1	42	1	61	51	38	26	56	1	38	16	1
	and over	At home	16		18	19	15	19	16	17	10	14	13	17	21	2
	4	.R.H.M-noN latiqsod	20		15	1	55	1	1	30	14	23	1	1	1	1
Parity of mother		.S.H.N Issiqsod	54		62	57	58	52	57	58	46	37	55	58	2	46
arity of		IstoT	19		21	19	22	18	19	16	17	16	17	22	23	20
		Огрец	150		%	0	10	12	12	4	0,	9	14	7	9	0
L	1-3	At home	10		13	6	=	6	10	10	0	00	6	16	16	17
		S.H.N-noN latiqsod	5		6	12	10	S	2	13	11	00	9	11	12	1
		.R.H.N. Issiqsod	28		33	32	32	32	32	26	23	26	26	28	30	22
		IstoT	25		29	56	29	25	25	24	22	22	25	29	29	28
		Отрес	20		19	14	30	19	20	11	32	17	12	22	18	30
	0	əmod 1A	19		22	19	27	19	18	14	16	13	18	26	25	32
		.S.H.N-noN Iniqsod	15		14	12	14	17	6	19	17	16	11	14	15	1
		S.H.N. Issiiqsod	27		32	53	30	27	28	28	22	25	27	30	31	28
			:		:	:	:	:	:	:	:	:	:	ishire)	:	:
			:		:	831	:	:	:	:	London and South Eastern	:	:	Wales (including Monmouthshire)	(JS	(12
		Area	les.	**	:	Ridin	:	p	:	:	outh I	:	:	oW Su	uth Ea	mainde
			d Wal	egions	_	West	esterr	lidlan	:	:	and S	:	estern	ncludir	I (So	II (re
			England and Wales	Standard Regions:	Northern	East and West Ridings	North Western	North Midland	Midland	Eastern	nopu	Southern	South Western	ales (i)	Wales I (South East)	Wales II (remainder)
			Engl	Stan	ž	Ea	ž	ž	Z	Ea	2	So	So	W		

* Parity in this instance means the number of previous liveborn children.

GREAT BRITAIN AND IRELAND

Vital Statistics

Table A1 of Part II shows the populations of Great Britain and Ireland and of the constituent countries for each census since 1801, and also the mid-year population estimates for each year since 1921.

For the current year, *home* population estimates together with marriage, live birth, death and infant mortality rates are shown in Table W of Part II. These are repeated with similar rates for earlier years in Table CVIII.

Table CVIII. Vital statistics: 1938, 1946–1950 and 1953 to 1957, Great Britain and Ireland

		Great Britain and Ireland	England	Wales (including Mon- mouthshire)	Scotland	Northern Ireland	Irish Republic(1)
]	Estimated m	id-year home	e population	(in thousan	ıds)	
1957₹ F	lales emales ersons	26,250 28,090 54,340	20,367 21,929 42,296	1,281 1,330 2,611	2,465 2,685 5,150	681 717 1,398	1,456 1,429 2,885
			Marr	riages(2)			
1957 Persons marry 1,000 living		413,393	327,174	19,729	42,676	9,391	14,423
1938 1946–1950	* • •	16·8 17·1	17·6 17·7	16·2 17·4	15·5 16·9	13·4 13·9	10·1 11·0
1953 1954 1955 1956 1957		15·3 15·2 15·8 15·6 15·2	15·7 15·5 16·1 15·8 15·5	15·4 15·1 16·3 15·6 15·1	16·0 16·4 16·8 17·1 16·6	13·6 13·2 13·6 13·4 13·4	10·8 10·8 11·3 11·6 10·0
			Live b	irths(2)(8)			
1957 Per 1,000 livir	ng	912,752	681,736	41,645	97,977	30,108	61,286
1938 1946–1950		15·7 18·5	15·1 18·0	15·3 17·9	17·7 19·8	20·0 22·0	19·4 22·2
1953 1954 1955 1956 1957		16·2 15·9 15·8 16·4 16·8	15·5 15·2 15·0 15·7 16·1	16·0 15·5 14·9 15·7 15·9	17·8 18·0 18·0 18·5 19·0	20·9 20·8 20·8 21·1 21·5	21·2 21·3 21·2 21·0 21·2

⁽¹⁾ The Irish Republic rates are based on home population throughout.

⁽²⁾ The marriage and live birth rates for 1938 and 1953 onwards are based on *home* populations, For the 1946–50 aggregate they are based on *total* populations.

⁽³⁾ England and Wales: occurrences. Remainder: registrations.

		Great Britain and Ireland	England	Wales (including Mon- mouthshire)	Scotland	Northern Ireland	Irish Republic(1)
			Dea	aths(2)			
1957 Per 1,000 living		625,508	482,174	32,696	61,143	15,187	34,308
1931–1938(³) 1946–1950		12·4 11·9	12·0 11·7	12·9 12·6	13·3 12·5	14·4 11·9	14·2 13·3
1953 1954 1955 1956 1957	• •	11.4 11.4 11.7 11.7 11.5	11·4 11·3 11·6 11·6 11·4	12·1 12·6 13·0 12·4 12·5	11·5 12·0 12·0 12·0 11·9	10·7 10·9 11·1 10·6 10·9	11·7 12·1 12·6 11·7 11·9
	Infar	nt mortality	(deaths of in	fants under	one year of	age(4))	
1957 ./.		22,417	15,537	1,183	2,802	869	2,026
Per 1,000 live bir 1938 1946–1950	··	55 39	53 36	57 42	70 47	75 48	67 57
1953		28 27 27 25 25	27 25 25 25 23 23	31 32 31 29 28	31 31 30 29 29	38 33 32 29 29	39 38 37 36 33

(1) The Irish Republic rates are based on home population throughout.

Population.—The home population of Great Britain and Ireland at mid-1957 was estimated to be 54,340,000, which represented an increase of $2 \cdot 2$ per cent on the 1951 Census figures. The increase amounted to $2 \cdot 8$ per cent in England; $0 \cdot 46$ per cent in Wales; $1 \cdot 1$ per cent in Scotland and $2 \cdot 0$ per cent in Northern Ireland. In the Irish Republic the population had fallen below the 1951 Census figure by $2 \cdot 6$ per cent.

Marriage rates.—During 1957 the marriage rate in Great Britain and Ireland again decreased to 15·2 per thousand compared with 15·6 in 1956 and 15·8 in 1955. Northern Ireland was the only country where the marriage rate did not fall. The marriage rate in Scotland remained significantly higher than the rate for Great Britain and Ireland combined, and that for the Irish Republic significantly lower.

Birth rates.—The live birth rate in Great Britain and Ireland again increased, being 16.8 per thousand compared with 16.4 in 1956 and 15.8 in 1955. There was an increase in all countries, though the rates in England and Wales remained significantly lower than those in Scotland and Ireland.

⁽²⁾ The death rates are based on total deaths and *home* populations except for the years 1946–49 in the 1946–50 aggregate where they are based on civilian deaths and *civilian* populations.

⁽³⁾ The aggregate 1931–38 is given since crude death rates in 1938 were rather lower than in adjacent years.

⁽⁴⁾ England and Wales: for 1957, based on deaths per 1,000 occurrences; for earlier years, based on deaths per 1,000 related live births. Remainder: based on deaths per 1,000 births registered.

Death rates.—The death rate in Great Britain and Ireland was 11.5 per thousand population in 1957 compared with the 1956 figure of 11.7. In the individual countries the rates were only slightly different from those of the preceding year. There was little variation between the overall death rates for the individual countries but this similarity conceals some considerable variations when deaths are analysed by cause.

Infant mortality rates.—At 25 per thousand live births the infant mortality rate in Great Britain and Ireland remained at the low level reached in 1956. The rates for the individual countries showed little change, apart from the rate in the Irish Republic which continued to fall, though it was still significantly higher than in the other countries.

Cause of death.—The number of deaths and the death rates classified by sex and selected cause are shown in Table CIX for Great Britain and Ireland and the constituent countries.

The large differences in the recorded rates for senility and unknown causes between Ireland and Great Britain may reflect differences in diagnostic practice. Such differences will affect comparison for other specific causes, and it is possible that they are partly the cause of the lower death rates recorded in Ireland, and particularly in the Irish Republic, from cancer of the trachea, bronchus and lung and from vascular lesions affecting the central nervous system. A similar feature may affect the comparison of the rates for arteriosclerotic heart diseases and degenerative heart disease between the Irish Republic and the rest of Great Britain and Ireland.

There was some variation in the death rates from tuberculosis of the respiratory system, the death rate being considerably higher for both sexes in the Irish Republic than in the remainder of Great Britain and Ireland where Wales and Scotland had rather higher rates than England and Northern Ireland.

In all the countries there was a noticeable increase in the death rate due to influenza caused by the epidemic in the autumn of 1957. As in 1956, death rates from pneumonia were higher in England than in the other countries, and both England and Wales had comparatively high death rates from bronchitis.

Mortality from motor accidents showed little variation between countries apart from the Irish Republic which in 1957 had lower death rates than the other countries, particularly for males. Death rates from suicide and self-inflicted injury continue to be much lower in Ireland than in Great Britain.

Classified in accordance with the Abbreviated (B) List of the International Statistical Classification (Sixth Revision) Table CIX. Deaths and death rates by cause and sex, 1957, Great Britain and Ireland

				Deaths	SI				Death rates per million livin	Death rates per million living	million living	50	
(and International Classification Numbers)	Sex	Great Britain and Ireland	England	Wales	Scotland	Northern Ireland	Irish Republic*	Great Britain and Ireland	England	Wales	Scotland	Northern	Irish Republic*
All Causes {	ÄH.	324,313 301,198	248,640 233,534	17,767	31,622 29,521	7,929	18,355 15,956	12,271 10,723	12,208	13,870	12,827	11,638	12,606
Tuberculosis of respiratory system {	Ä.H.	4,092	2,908	242	452 212	107	383	. 155	143	189	183	157	263 140
Tuberculosis, other forms (010– { 1010– }	F.K	378 354	249	118	32	17	65	113	122	12	13	25	45
Syphilis and its sequelae (020-029)	F.	991 453	830 394	19	77 22	25	15	37	41	38	88	37	10
Typhoid fever (040)	ÄH.	72	1	11	11	- 1	11	00	00	11	11	1 -	11
Cholera (043)	F.	11	11	11	11	11	11		11	11	11	11	11
Dysentery, all forms (045–048) {	F.	16	111	11	m m	11		I	1	İI	12	11	1
Scarlet fever and streptococcal sore throat (050,051)	F.	12 17	15	1 2		11	1	0 1	0 .	- 2	00	11	I
Diphtheria (055) {	F.	7.	0.4	11	11	11	നന	00	00	.11			~~
Whooping cough (056) {	F.K.	53	31 50	20	110		9	cim	212	0.4	44	I	° ∞′
Meningococcal infections (057) {	ĔΉ.	121	80	10	14	e-1	10	24	4.4	, v2 ∞	98	4 1	14
Plague (058)	Ä.		11	11	H	11	11	11	11	11	11	11	ΙΙ
Acute poliomyelitis (080) {	Е.	162 97	137	94	r-4	24	7	969	1-4	נה נה	- 13	7.0	2).4
Smallpox (084)	ÄΉ.	-		11	11	11	11	00	00	11	11	11	11
Measles (085) {	F.E.	70 63	36	-22	10	-77	10	64	m (1	14	0.4	78	10
#Description				The state of the s									-

*Provisional

Table CIX—continued

Cause of death				Deaths	SI				Deat	h rates per	Death rates per million living	20	
Classification Numbers)	Sex	Great Britain and Ireland	England	Wales	Scotland	Northern	Irish Republic*	Great Britain and Ireland	England	Wales	Scotland	Northern Ireland	Irish Republic*
Typhus and other rickettsial diseases (100–108)	Σï.	, see] [11	11	11	11	11	11	11	11
Malaria (110–117)	ÄΨ.	W-	e=	11	11	,11	7	00	00		11	1 1	1
All other diseases classified as infective and parasitic (remainder of 001–138)	F.E.	618 596	458	40	53	25	42 28	23	22	31	20	37	20,
Malignant neoplasms (140-205) {	Σï.	59,529 52,437	47,104	2,952 2,488	5,632 5,115	1,264	2,577	2,252	2,313	2,304	2,285	1,855	1,770
Malignant neoplasm of stomach {	F.	9,690	7,298 5,546	688	874 820	231	599	367	358 253	537	355	339	411
Malignant neoplasm of trachea, bronchus and lung (162,163)	ÄH.	18,865	15,639 2,612	791	1,777	268	390	714	768	617	721	393	268
Malignant neoplasm of breast (170) {	Ä.	10,118	8,172	441	940	192	373	360	373	332	350	268	261
Malignant neoplasm of uterus (171-174)	II.	4,631	3,676	263	422	66	171	165	168	198	157	138	120
Leukaemia and aleukaemia (204) {	Ж.	1,543	1,221	80	142	33	99	58	944	39	58	48	46
Other malignant and lymphatic neoplasms (remainder of 140- 205)	F.	29,357 25,790	22,877	1,392	2,835	732 553	1,521	1,111	1,123	1,087	1,150	1,074	1,045
Benign and unspecified neoplasms {	Ä.F.	1,035	690 843	46	59	801	68 59	33	38	36	28	12	41
Diabetes mellitus (260) {	Äч.	1,275	2,000	124	145 360	30	87 126	95	91	52	134	45%	88
Anaemias (290–293) {	Ä.F.	1,489	512	101	142	18	81 152	53	25.	37	23	39 68	56 106
Vascular lesions affecting central { nervous system (330-334) }	Žï.	37,151 51,989	28,447 40,190	2,942	4,030 5,536	1,192	1,712 2,129	1,406	1,397	1,632 2,212	1,635	1,280	1,176
Nonmeningococcal meningitis (340) {	ΣH.	322 208	244	18	33	24	228	12	12	14	13	7.0	15
*Provisional.													

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Cause of death				Deaths	St				Deat	h rates per	Death rates per million living	50	
(and International Classification Numbers)	xex	Great Britain and Ireland	England	Wales	Scotland	Northern Ireland	Irish Republic*	Great Britain and Ireland	England	Wales	Scotland	Northern Ireland	Irish Republic*
Rheumatic fever (400-402) {	Σ.F.	140	70 86	801	26 19	9	23	S	w4	10 ∞	111	13	19
Chronic rheumatic heart disease (410-416)	Σï	3,566 6,203	2,760 4,939	229	303	73	201	135	136 225	179	123 225	107	138
Arteriosclerotic heart diseases in-	Σщ	57,515 34,174	44,634 26,796	3,175	5,942	1,556	2,208	2,176	2,191	2,479	2,410	2,283	1,516
Degenerative heart disease (421, { 422)	ŽH.	31,325 42,897	22,635 32,571	1,669	3,631	769	2,621	1,185	1,111	1,303	1,473	1,129	1,800
Other diseases of heart (430-434) {	ŽF.	5,943 6,368	4,485	260	338	222 261	678 596	225	220	203	121	326	466
Hypertension with heart disease {	Σï	6,317 8,126	4,959 6,504	409	511	189	249	239	243	319	207	277	171
Hypertension without mention of { heart (444-447)	ÄΗ̈́	4,058	3,189	235 256	294	81 62	259 241	154	157	183	119	119 86	178
Other circulatory diseases (450-468)	Ž:	8,518 9,891	6,566	500	928	149	534	322	322	380	312	219	367
Influenza (480–483) {	Ä.	4,360	3,324 2,980	229	335	1118	354	165	163	179	136	173	243
Pneumonia (490–493) {	E.E.	13,563	11,087	529 419	1,067	330	550 460	513	544 491	413	433	484	378
Bronchitis (500–502)	Ä.F.	21,348 9,141	17,621	1,341	1,415	346 170	625	808 325	865 344	1,047	574	508	429
Other diseases of respiratory system (470-475, 510-527)	ΣH.	4,183	2,958	536 86	427	42	191	158	145	418	173	104	131 87
Ulcer of stomach and duodenum { (540, 541)	Z.F.	4,259	3,371	197	425	83	183	161	166	154	172	122 57	126 45
Appendicitis (550–553) {	ŽΗ.	602 358	464 289	33	35	12 6	25 15	23	23	26	28	18	17 01
Intestinal obstruction and hernia (560, 561, 570)	Σï.	1,790	1,368	74	219	35	96	648	67	58	89	51	63
													-

*Provisional.

Cause of death	7			Deaths	hs				Dea	th rates per	Death rates per million living	50	
(and International Classification Numbers)	Sex	Great Britain and Ireland	England	Wales	Scotland	Northern	Irish Republic*	Great Britain and Ireland	England	Wales	Scotland	Northern	Irish Republic*
Gastritis, enteritis and diarrhoea except diarrhoea of newborn (543, 571, 572)	Zi.	1,200	852	63	134	39	112 84	45	42 56	49 56	54 50	57 59	77 59
Cirrhosis of liver (581)	Ä.	849	621 511	46	124	- 23	42	32 25	30	36	84	23	29 13
Nephritis and nephrosis (590-594)	ΣH.	2,525	2,153	192	252 259	78 56	255	1111	106	150	102	114	175
Hyperplasia of prostate (610)	Z.	4,357	3,337	308	389	108	215	165	164	240	158	159	148
Complications of pregnancy, child-birth and puerperium (640-689)	표.	509	320	29	46	33	8	18	15	22	17	46	57
Congenital malformations (750– { 759)	Ä.	3,327	2,424 2,177	165	390	108	240	126	119	129	158	159	165 175
Birth injuries, postnatal asphyxia and atelectasis (760–762)	Σï.	3,695 2,338	2,653	199	473 289	126	244	140	130	155	192 108	185	168 103
Diarrhoea of newborn (764) {	Ä.F.	35	20	0-	10	94	02 ss	71	7	77	w 4	00	14 6
Other infections of newborn (763, {765–768)	Žщ.	656	431	232	78	29	\$8	25	21 13	23	32	43	61
Other diseases of early infancy and immaturity unqualified (769–776)	ÄÄ.	3,096 2,221	2,123	161	370	106	336	117	104	126	150	156	231 141
Senility without mention of psy- chosis, ill-defined causes and un- known causes (790-795)	ΞΉ.	4,377	2,434 4,382	263	281	234	1,165	166 248	120	205	1114	343	800
All other diseases (remainder of { 001-795)	F.	10,359	7,325	526 697	1,009	324	1,175	392 484	360	411	409	476	807 750
Motor vehicle accidents (E810- {	ÄΞ.	4,369	3,467	206	436	125	135	165	170	161 - 44	177	183	93
All other accidents (E800-E802, { E840-E962)	E.	7,372 6,345	5,360 4,929	437	1,039	167	369	279	263	341	421 276	245 205	253 178
Suicide and self-inflicted injury {	Ä.	3,521 2,338	3,018	152 86	262 158	31	58	133	148	119	106	46	40
Homicide and operations of war (E964, E965, E980-E999)	E.E.	258	127	111	26	1.4	P-60	10	10	0.4	111	10	20
*Provisional.													

INTERNATIONAL CO-OPERATION IN POPULATION AND HEALTH STATISTICS

United Nations

Population Commission

Almost exactly ten years after the date of the first meeting, representatives of all 15 Member States met in New York on the 25th February 1957 to begin the ninth session of the Population Commission. The United Kingdom was represented by Mr. B. Benjamin of the General Register Office. As at the previous session held two years earlier, Mr. J. T. Marshall (Canada) was elected to the Chair with Mr. J. Mertens de Wilmars (Belgium) Vice-Chairman and Mr. Benjamin *Rapporteur*.

The beginning of the Report¹ on this session, where the Secretary-General is complimented on a concise and well-documented summary of the known facts about world population and demographic trends, is an apt commentary on the policy pursued during these ten years. Right from the start the Commission has stressed the need for a better basis on which to gauge changes in the size and structure of populations. The practical aim has been to extend the coverage of census and vital statistics, to improve their quality and to encourage the use of common definitions and standards so that figures of one country are comparable with those of another. But the Commission was by no means complacent, for its remarks were tempered by a reminder that much had yet to be done, especially by improving or extending registration services in African, Asian and Latin American countries.

The tenor of the proceedings and the terms of the two draft resolutions² recommended by the Commission to the Economic and Social Council were consistent with the United Nations' current policy of applying the greater part of available resources to the needs of less developed countries. They also re-echoed the warning note sounded at the eighth session, when the Commission laid special emphasis on the hazards of failing to take account of the inter-action of population changes and economic development. One resolution focused attention on the need to improve census and vital statistics in Africa, the other aimed at encouraging governments to help the United Nations to meet increasing demands for technical assistance.

The latter was a reference to the difficulty of recruiting experts on short term assignments. To meet this, the Commission asked the Secretary-General to consider the desirability of providing for the establishment of one or two permanent posts to be filled by demographers who would be qualified and available for technical assistance missions as required. The Commission hoped that such an arrangement offering career prospects would attract candidates of high calibre.

In the meantime posts for demographic experts had been established in the Social Affairs Divisions of the Economic Commission for Asia and the Far East and the Economic Commission for Latin America and at the Regional Social Affairs Unit in the Middle East. The aim was two-fold: to lessen demands on the headquarters' Secretariat, while at the same time preserving a link between headquarters and the regions on population matters, and to meet some of the requests from governments in the regions for technical assistance in demography.

Two important developments then taking place were reported to the Commission. Regional demographic research and training centres were being set up in Chile (Santiago) and India (Bombay) with the aid of technical assistance and

a third—somewhere in Africa—was in prospect. The importance of centres of this kind is that they enable governments to get formal training in demography and statistics for their officials, in addition to providing an opportunity for officials to meet and compare notes. The Commission was informed that two seminars had been held in 1955, one at Bandung (for Asia and the Far East) and the second at Rio de Janeiro (for Latin America). The Middle East and Africa were mentioned as areas in which it was also intended to hold seminars. The Commission noted that an African Seminar on Vital and Health Statistics, sponsored jointly by the Commission for Technical Co-operation in Africa South of the Sahara and the World Health Organization, had been held in Brazzaville, French Equatorial Africa, in 1956.

Other technical assistance matters reported to the Commission included the Report on the study of population in Mysore State, India, then said to be nearing completion, and a pilot survey under way in the Philippines. This survey was designed to assess the value of national sample surveys as a means of obtaining information on demographic aspects of manpower, employment and similar problems that cannot be readily obtained from the census—in addition to providing data needed by the Government of the Philippines for planning economic and social development. There was also a proposal for a second demographic pilot study in a densely populated area in the ECAFE region. The Commission signified its confidence in the value of such projects by suggesting that a third study should be considered.

In the form of a second draft of General Principles for a Population Census³ the Commission reviewed at some length the considerable progress that had been made since the time when, at the first session in 1947, recommendations for improving comparability between national censuses were first made. The Principles were then at a point where they had been modified in the light of amendments proposed at some regional meetings; other regional discussions, including the European, had not been completed.

Representatives of under-developed countries showed continued interest in the possibility of studies on internal migration in relation to economic and social development. The Secretary-General discussed the possibilities in a note which dealt primarily with questions of definition and measurement. The Commission was informed that a French edition of *The Determinants and Consequences of Population Trends*⁴ had been published and that a Spanish edition was in the press. The second printing of the English edition had been exhausted and the Commission asked for a third.

The Commission's Report urged governments, among other things, to make a scientific approach to population growth in relation to industrial development. Reference was made to a number of published papers giving background: in addition to *The Determinants and Consequences of Population Trends*⁴, there was *Population Growth and the Standard of Living in Under-Developed Countries*⁵, the *Population of Central America* (including Mexico) 1950–1980⁶ and the *Population of South America* 1950–1980⁷.

Economic and Social Council: Twenty-third session

The Report of the ninth session of the Population Commission¹ was on the agenda for this session of the Council when it met at the United Nations' Headquarters in New York on the 16th April 1957. Seventeen of the 18 delegations represented spoke when the Report was considered by the Council's Social Committee on the 18th April. There was general approval for the work of the Commission; the Report and proposed future programme were well received. The Committee shared the view of the Commission that the Secretariat should concentrate on work directly connected to economic and social

problems. The Council took note⁸ of the Report and, in plenary session on the 7th May 1957, unanimously adopted the two draft resolutions proposed by the Commission.

On the recommendation of its Economic Committee the Council also adopted a resolution on *industrialization*⁹ which was directed more particularly to the needs of the Middle East and Africa. Its main purpose was to request the Secretary-General to consider the possibility of organizing seminars, consultations and training centres in addition to collecting essential up-to-date economic data.

Three of the five retiring members of the Population Commission—the United Kingdom, the United States and the USSR—were re-elected by the Council for a further period of four years. The other retiring members, namely Costa Rica and India, were replaced by El Salvador and Japan¹⁰.

General Assembly: Twelfth session

When the Second (economic) Committee of the United Nations' General Assembly was debating whether to sanction a special fund for economic development, the Peruvian delegation introduced a five-power draft resolution¹¹ which aimed at stressing the need to take account of the inter-play of economic factors and population changes, especially in countries where economic development is in progress. The other sponsors were Brazil, Italy, Mexico and Pakistan. Though lacking unanimity in the matter of the special fund, the Assembly adopted the resolution on demographic questions¹² which, among other things, requested the Economic and Social Council "to include pertinent information concerning the demographic activities of the Council in the chapter on economic development of its annual report to the General Assembly". This created an important precedent because it means that population questions, hitherto the preserve of the Third (social) Committee, will also be looked at by the Second Committee—an indication perhaps that the United Nations is beginning to recognize that the economic consequences of population changes are at least as important as their social implications.

Conference of European Statisticians

The fifth plenary session of the Conference was held in Geneva from the 17th to the 21st June 1957. Mr. H. Campion, Director of the Central Statistical Office, who led the United Kingdom delegation, was in the Chair. Reports before the Conference included that on the second session of the Working Group on Censuses of Population and Housing¹³ held in November 1956. (See page 263 of Part III of the 1956 Review.)

The Working Group had recommended that the *Rapporteurs* who had previously formulated proposals for the classification of persons by socio-professional groups should be reconvened. They met again in May 1957. Their modified proposals on the classifications of the population (a) by type of activity, (b) by status, (c) by socio-professional groups and (d) of the whole population by social and economic characteristics were reviewed by the Conference and referred to the Working Group, which met later in the year (see below), for detailed consideration. In its Report to the Conference also invited statistical offices to arrange for information about plans for the next round of Censuses to be pooled through the Secretariat, especially on sampling methods and organizational procedures.

The Conference also considered a memorandum on the timing of various censuses, the inter-relationship between censuses and the relation between censuses and short-period statistics¹⁶ which the United Kingdom had been asked to prepare.

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European Working Group on Censuses of Population and Housing

At the third session, held in Geneva from the 9th to the 14th December 1957, the United Kingdom was again represented by Mr. B. Benjamin and Mr. W. J. Littlewood of the General Register Office.

The social and economic classifications proposed by the *Rapporteurs* (see above) were considered at this session in some detail against the background of national comments on the proposals. A strong measure of agreement was reached and recommendations were made both for basic groups to be included in the classifications and for optional sub-divisions of some of the groups which were considered to be useful.¹⁷

The Working Group also devoted some time to the subject of household and family statistics. A sub-group, with Mr. Benjamin as Chairman and Rapporteur, was set up to clarify the different concepts of household, family and dwelling, to draw up a tentative classification of families and households by structural types and to consider the main problems of dependency statistics. The work of the sub-group enabled the Working Group to reach agreement on the first and third of these items, but shortage of time precluded discussion on problems of classification. The sub-group's recommendations on these were reproduced in an annex to the Report¹⁷ of the Working Group.

World Health Organization

Executive Board

The Board met as usual in January and in May. At the second meeting, the twentieth session, the Fifth Report of the Expert Committee on Health Statistics¹⁸ was approved for publication.

The Tenth World Health Assembly

The United Kingdom delegation to the Assembly, held in Geneva from the 7th to 22nd May, included Mr. L. M. Feery, General Register Office.

The Assembly's attention was drawn to the Director-General's emphasis, in reporting on WHO's work in 1956¹⁹, on the fundamental importance of statistical compilation and analysis to the growing need for more precise information about health in many parts of the world. He stated that health statistics were available for the whole of some 30 countries only and for selected towns in a few others. Elsewhere the systematic knowledge of health conditions essential to planning improvements in public health was lacking. This information disposed the Assembly to support a Resolution²⁰ introduced by the United States delegation with the object of getting the Director-General to cast a critical eye on existing arrangements and to consider whether WHO could do more to assist countries to remedy defects and fill gaps in health statistics.

Widespread agreement, especially among the delegations of developed countries, that the epidemiological study of cancer is potentially a useful method of research into its aetiology resulted in the presentation of a draft resolution jointly sponsored by Australia, France, Holland, Iran, Poland, the United States and the United Kingdom. In debate the proposed resolution had the additional support of Denmark, Egypt, Finland, the Irish Republic, Norway, the Philippines, Sweden and the Soviet Union. The Resolution²¹, as adopted by the Assembly, requested the Director-General:

- (1) to continue the collection and publication of international statistics, mainly of mortality, but also of morbidity so far as practicable;
- (2) to continue work on formulating international definitions of nomenclature and statistical classification, including cancer staging;

- (3) to provide an advisory centre on the objectives and methods of cancer registration;
- (4) to consider the desirability and urgency of both co-ordinating and expanding work on cancer epidemiology and statistics in order to contribute more effectively to national needs through improved international liaison; and
- (5) to include in the epidemiological work on cancer, due reference to occupational and other environmental conditions likely to have an influence on the frequency of the various forms of the disease and therefore an etiological significance.

Expert Committee on Health Statistics: Sub-Committee on Cancer Statistics

At the third session of the Sub-Committee, held in Geneva from 9th to 14th December, Dr. W. P. D. Logan of the General Register Office was elected Chairman and also acted as *Rapporteur*.²²

The Fifth Report of the Expert Committee¹⁸ gave an account of progress that had been made since the Sub-Committee last met, especially in the establishment of cancer registers in various countries, the compilation of a clinical-stage classification of malignant neoplasms, the development of techniques for ascertaining the incidence and prevalence of cancer in the population, and the expansion of statistical studies of the aetiology of cancer. The Sub-Committee reviewed these recent developments, defined the terms "incidence" and "prevalence" and discussed difficulties encountered in producing reliable statistics; the scope of available information and of studies based on cancer registers was also considered. Statistical methods could contribute to the study of the aetiology of cancer in two main ways: (a) as an auxiliary to experimental and clinical cancer research and (b) as the foundation of epidemiological studies; and only evidence on the incidence of malignant neoplasms in human beings would decide the extent to which the numerous carcinogenic factors known were significant with regard to man. The Sub-Committee noted that malignant tumours were classified in greater detail in the Seventh Revision of the International Statistical Classification and that the International Union Against Cancer had prepared a draft Histological Nomenclature of Human Tumours. The latter was intended for use in pathology, rather than for statistical purposes. The Sub-Committee recommended continued studies to ascertain how far diagnoses of malignant tumours reported in death certificates could be accepted as reliable.

WHO Centre for the Classification of Diseases

The WHO Centre, located at the General Register Office under the direction of Dr. W. P. D. Logan, was mainly engaged during the year in helping the Secretariat at Geneva with the preparation of an Index to the revised *International Statistical Classification of Diseases*, *Injuries and Causes of Death*. The revised index cards were despatched to Geneva, and thereafter Mr. H. G. Corbett of the General Register Office made a series of visits to check and assist in the preparation of the Index.

Other activities included the coding of 3,000 entries according to the Seventh Revision using, for purposes of comparison, a different method of selecting the underlying cause. The Latin American Centre sent 500 certificates of cause of death in Spanish to be coded so that differences in coding could be considered. Work also continued on the multiple-cause analyses of selected diseases.

Symposium on the Public Health Aspects of Chronic Disease

This Symposium, under the auspices of the WHO Regional Office for Europe, was held in Amsterdam from 30th September to 5th October. Thirteen

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countries were represented and Dr. W. P. D. Logan was elected *Rapporteur*. The Symposium considered four major chronic disease groups: malignant neoplasms, diabetes mellitus, cardiovascular diseases and rheumatism. Particular attention was paid to the age-group 40–64 years—that of later working life.

In discussing epidemiological research, it was agreed that morbidity statistics were of potentially greater value than mortality statistics, but they were more difficult to obtain. Hospital and social security statistics form the major sources of morbidity data in most countries where they are available but special schemes, such as cancer registration and the collection of special statistics of cardiovascular disease, might be more widely used. Noting the large differences among the European countries in recorded mortality from atherosclerotic heart disease, the Symposium suggested that the WHO Regional Office for Europe should take steps to find out the extent to which these were real and not differences arising from variations in diagnosis, nomenclature or statistical method.

Inter-American Seminar on Classification of Diseases

This Seminar was held in Caracas from 26th to 30th August 1957.²⁸ Dr. W. P. D. Logan attended in his capacity of Head of the WHO Centre for the Classification of Diseases. The Seminar provided an opportunity of explaining the 1955 revision of the International Statistical Classification of Diseases, Injuries, and Causes of Death and of encouraging all countries to use both the Classification and the recommended form of medical certificate. It also aimed at improving medical certification in the Americas and in establishing closer working relations between countries and the Latin American Centre. In addition to these general matters the Seminar dealt with three topics in more detail: the classification of the diarrhoeal diseases, methods of improving and extending medical certification, and the use of the International List in hospitals.

International Labour Organisation

Ninth International Conference of Labour Statisticians

A final draft of the major, minor and unit groups of an International Standard Classification of Occupations (I.S.C.O.) was on the agenda paper when the Conference met in Geneva from 24th April to 3rd May. Mr. W. J. Littlewood, United Kingdom member of the Working Group on this classification (see page 232 of the corresponding part of the *Review* for 1955), was *Rapporteur* of the Conference's I.S.C.O. Committee.

The major groups of the Classification were settled when the Seventh International Conference of Labour Statisticians²⁴ met in 1949 and the minor groups were filled in by the Eighth Conference²⁵ in 1954. Although the Classification had taken a long time to evolve, the Conference was not entirely satisfied with it. The wish to have it available in time for use in connection with the 1960 round of censuses favoured its adoption and the Conference resolved that "The Classification in its present form will serve, for the time being, as a useful means of reporting occupational data intended for international comparisons".²⁶

Other Meetings

International Statistical Institute

The Registrar General was represented by Mr. W. J. Littlewood at the 30th regular session of the Institute, held in Stockholm in August 1957. Fertility statistics, census plans for the nineteen sixties and the electronic computer as a statistical tool were some of the subjects discussed. On a resolution proposed by the Committee on Statistics of Large Towns the Institute also considered the general question of municipal statistics.

World Congress of Psychiatry

Miss E. M. Brooke of the General Register Office attended the Second World Congress of Psychiatry held at Zurich from 1st to 7th September 1957. The Congress was attended by some 3,000 people who presented a wide selection of papers. The main theme was the current state of knowledge about the "Group of Schizophrenias" and Miss Brooke contributed a paper on Schizophrenia in relation to occupation.

Permanent International Committee on Industrial Medicine: Conference on Sick Absence Statistics

The main purpose of this Conference, held in Leyden from 10th to 12th October 1957, and attended by Dr. W. P. D. Logan, was to get agreement on methods of dealing with statistics of sickness absence before national developments became too settled, perhaps without regard to the matter of international comparability.

Visitors from overseas

There were 35 visitors from 22 Commonwealth and foreign countries to the General Register Office during 1957. The majority were officials sent by their Governments or who had been awarded fellowships by the United Nations, the World Health Organization or under the Colombo Plan to study registration procedure and vital and health statistics. One Fellow began a 12 months' course of training during the period. Other visitors included senior officials who took the opportunity for discussions while in London.

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THE REGISTRATION SERVICE

Searches and certificates

Table T1 of Part II shows the growth in the registers of births, marriages and deaths since 1866 and the extent to which the registers and indexes have been used in a series of years since then.

The number of searches paid for by the public in 1957, at 229,685, was the highest since 1952. The number of searches undertaken for Government departments, mainly to verify ages of applicants for retirement pensions, declined to 279,218 after an increase in 1956 due to the verification, for national insurance purposes, of the births of persons entering at late ages into national insurance in 1948. The verification of a further 36,000 births in this group, which was carried out in 1957, is included in this total.

The number of certificates issued from the registers in 1957, at 317,616, was the highest since 1948, when the demand was exceptionally high on account of post-war resettlement and the introduction of new social legislation. Table T2 shows that this increase applied to birth, marriage and adoption certificates, but not to death certificates. The proportion of short birth certificates to all birth certificates issued by the General Register Office remained almost the same as in 1956 at 46.4 per cent.

Re-registration of births of legitimated persons

If the parents of a child marry after the child's birth, the marriage will in certain circumstances legitimate the child. In these cases the birth should be re-registered to show the child as a legitimate child of its parents; but the date when the parents apply for re-registration may be determined more by the need to produce a birth certificate, e.g. for entry to school, than by the date of the marriage which legitimated the child. The Legitimation (Re-registration of Birth) Act, which was passed in 1957, clarified the law relating to power to re-register a small number of these births about which there had been doubt; but it does not have any material effect on the numbers re-registered.

Table T3 shows the number of births re-registered in each year since 1927, the year after provision was first made for re-registration. Attention was drawn in the 1956 *Review* to fluctuations in the numbers during the 30 years 1927 to 1956. The relative stability in the figures since 1951 continued in 1957, when 2,511 births were re-registered.

Adopted children

The number of entries in the Adopted Children Register are shown in Table T4 for each year since 1951 and for groups of years from 1927 to 1955 (the original provision for the register was made in 1926). From a peak of more than 21,000 entries in 1946, there was a drop to less than 13,000 entries in 1950. The figure of 13,403 in 1957 continued the fairly constant annual rate of adoption since that date. Table T4 also shows the number of orders made by each type of court. In the period 1927–30, 90 per cent of all orders were made by Courts of Summary Jurisdiction, 7 per cent by County Courts and 3 per cent by the High Court; by 1957 the proportion of orders made by the County Courts had risen to 41 per cent, the proportion made by Courts of Summary Jurisdiction fell to 58 per cent and less than 1 per cent were made by the High Court. Table T5 shows that 42 per cent of the children concerned were adopted by relatives, the mother and her husband in the great majority of cases.

THE NATIONAL HEALTH SERVICE CENTRAL REGISTER

During the year 1957, the National Health Service Central Register (which is maintained by the General Register Office on an agency basis) received notifications of 1,557,472 persons who were reported as having registered with doctors for the first time. It was found from the register that 194,646 of these were already on doctors' lists.

The Central Register also notified Executive Councils of the names of 1,002,544 persons for removal from doctors' lists by reason of death (500,959), enlistment (154,799), embarkation (344,308), or becoming long term patients in mental hospitals (2,478). It was not in fact possible for Executive Councils to remove from doctors' lists all the persons notified to them in this way, because, in many cases, there were insufficient identifying particulars. In addition, 1,361,810 persons were notified as having changed their doctor on removal from the area of one Executive Council to another.

PARLIAMENTARY AND LOCAL GOVERNMENT ELECTORS

Electoral registers

As required by the Electoral Registers Act, 1949, and the Representation of the People Act, 1949, a local register based on a canvass is prepared in the autumn of each year, distinguishing between those who are parliamentary and local government electors by virtue of residence on the qualifying date, and local government electors who on the qualifying date had a non-resident qualification by occupying as owner or tenant any rateable land or premises of not less than £10 rateable value per occupier. There is also a service register for any members of the Armed Forces and other persons employed in the service of the Crown in a post outside the United Kingdom, and for their wives if with them.

A person not of full age on the qualifying date but of full age on the following 15th June is to be included on the register though there is no entitlement to vote in any election before the 2nd October. Such persons are shown separately as "Young Electors" in Table CX; the 1951 register was the first to be affected in this way.

The qualifying date is 10th October in England and Wales and the registers must be used for elections falling within the twelve months beginning on 16th February of the following year.

Total electorate

The particulars recorded in Tables U and V for 1957 have been taken from statements furnished to the Registrar General by Electoral Registration Officers and Clerks to local authorities and relate to the register which came into force on 16th February 1957.

Table U refers to parliamentary and Table V to local government electors and elections. From these tables has been extracted the summary in Table CX.

Table CX. Parliamentary and local government electors, 1953 to 1957, England and Wales

		Parliamenta	ry Register		
Register (qualifying date	Total at	Services Register	"Young I (not in in cols. 2	cluded	Local Government Register
in brackets)	qualifying date	(included in col. 2)	Total	Services (included in col. 4)	Register
1	2 30 401 601	. 3	4 ,4	. 5	. 6
1953 (20th Nov. 1952)	30,491,691	274,646	225,429	11,145	30,606,472
1954 (20th Nov. 1953)	30,525,190	276,156	212,229	15,001	30,640,141
1955 (10th Oct. 1954)	30,590,931	285,376	242,907	19,578	30,707,251
1956 (10th Oct. 1955)	30,679,509	289,615	248,420	18,259	30,795,617
1957 (10th Oct. 1956)	30,737,369	295,084	243,793	22,593	30,855,871

The number of parliamentary electors registered in England and Wales corresponds almost exactly with the estimated *total* population aged 21 and over excluding aliens resident here and those categories not qualified to vote. This indicates that the discrepancies in different constituencies, due mostly to time lags in adding names to the registers or removing them, largely cancel out when aggregated for England and Wales as a whole. The percentages which the total parliamentary electorate represented of the estimated *total* population in the years 1953 to 1957 were:

1953	1954	1955	1956	1957
68.8	68.6	68.6	68.4	68.2

The proportion of the *total* population included in the local government register was 68·5 per cent in 1957. This is a slightly higher proportion than the parliamentary register mainly because of the local government electors with non-resident qualifications. There are about 118 thousand of these in England and Wales.

Local government elections in urban areas

Table CXI shows the percentage of the electorate voting in contested local government elections in each year between 1950 and 1957, classified by the type of local authority area. (No reference is made here to county council elections which are held every three years and did not take place in 1957.)

Table CXI. Local government elections. Percentage of electorate voting in contested elections, 1950 to 1957, England and Wales

District	1950	1951	1952	1953	1954	1955	1956	1957
County boroughs	45.5	44 · 4	49.9	45.2	42.8	43.8	37.6	40.0
Metropolitan boroughs, municipal boroughs and urban districts Rural districts	47·9 46·3	45·9 45·2	50·9 52·0	46·8 47·3	45·7 47·1	45·0 48·2	39·4 41·3	44·1 45·2
Total	46.7	45.1	50.6	46.2	44.3	44.8	38.7	42.2

In 1957 the proportion voting was lower in county boroughs than in municipal boroughs and urban districts, where the proportion was in turn lower than in rural districts. In 1957 the difference between county boroughs and other urban areas was greater than the difference between the other urban areas and rural districts, and in general this has been true of the earlier years shown in Table CXI. Since 1951, the proportion of the electorate voting in contested elections in county boroughs has been lower than in rural districts, but the position of the other urban areas relative to the other types of area has varied from year to year.

Table CXII shows the percentage of the electorate who voted in contested elections in all urban areas classified by the size of the total electorate in the area.

Table CXII. Local government elections. Percentage of electorate voting in contested elections in urban areas, 1957, England and Wales

Per	e electorate voting	47.9 47.9 49.8 40.4	40.0		44:1
	voting	222,330 301,202 515,859 928,039 1,138,790	3,106,220	195,861 364,552 704,625 1,643,969 906,494	3,815,501
·	electorate	464,283 659,372 1,176,662 2,297,742 3,158,718	7,756,777	382,885 738,300 1,479,888 3,668,148 2,376,100	8,645,321
E	number	. 16 17 19 20 9	81	131 135 158 152 37	613
	75 and over			4-111	0
	70-	11111	1	∞~1 ¢	10
	-69-	11111	1	110 110	33
50	-09	11-11	-	122 1 13	4
Percentage of electorate voting	55-	24-1	4	16 22 14 14	76
electora	50-	6444	10	24 25 24 25 25 25 25 25 25 25 25 25 25 25 25 25	92
age of	45-	ן מטמט	22	47 47 47 47 47 47 47 47 47 47 47 47 47 4	113
Percent	40-		12	115 127 117 119	110
	35-	46040	22		63
	30-	1-400	6	d urban districts 2 4 5 5 7 10 1 16 6 3	38
	25-	11111	1		19
	Under 25	ns	-	1 1 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2	01
Ī	Electorate at qualifying date	County boroughs Under 50,000 50,000 70,000 100,000	Total	Municipal boroughs an 5,000 4 5,000 3 10,000 50,000 and over 50,000 and over	Total

Among county boroughs which are shown in the first section of Table CXII there was a significant tendency for the percentage voting to fall as the size of the total electorate increased. In county boroughs with less than 50,000 in their total electorate 47.9 per cent of the electorate voted in contested elections compared with 36.1 per cent in those county boroughs with a total electorate of 200,000 or more. It appears that the rate of decrease lessens with the increasing size of the electorate. Among the 15 county boroughs in which more than half the electorate voted in contested elections, 10 had total electorates of less than 70,000 and only one had a total electorate of more than 100,000. versely, among the 10 county boroughs where less than 35 per cent of the electorate voted in contested elections seven had total electorates of 100,000 or more, while among the nine county boroughs with total electorates of 200,000 or more, only one (Bradford C.B. with 200,175 electors) had more than 40 per cent of the electorate voting in contested areas in local council elections in 1957. The extremes in the percentage of the electorate voting in contested elections ranged from Blackburn (60.6), Burnley (58.3) and Eastbourne (57.4) to West Ham (21.5), Stoke-on-Trent (32.6), Newcastle upon Tyne (32.7) and East Ham (32.8).

The second section of Table CXII shows that in municipal boroughs and urban districts there was a similar tendency for the proportion of the electorate voting in contested elections to fall as the size of the total electorate increased. cipal boroughs and urban districts with total electorates of less than 5,000 had 51.2 per cent of their electorate voting in contested areas, this being the only group of urban areas for which the proportion was over half. The proportion of the electorate voting decreased with the size of the total electorate, to 38.2 per cent for areas with a total electorate of 50,000 or more. Among the municipal boroughs and urban districts with total electorates of less than 5,000, 75 out of the total of 131 had more than half the electorate voting in contested areas, that is 57 per cent, and this percentage was only slightly less, at 55 per cent, for the 135 areas with total electorates between 5,000 and 10,000. The proportion of areas with more than half the electorate voting in contested areas fell to 44 per cent for areas with total electorates between 10,000 and 20,000, and to 27 per cent for those with between 20,000 and 50,000 in their total elec-All the municipal boroughs and urban districts with total electorates of more than 50,000 had less than half the electorate voting in contested areas. This last group of urban areas are geographically concentrated; among 37 such areas, 23 are within the Greater London Conurbation and four more are only a short distance outside. The range in the proportion of the electorate in contested elections who voted was rather greater for municipal boroughs and urban districts than for county boroughs. The highest percentage voting in this group was recorded in Chepstow U.D. (82.0), which is an area with fewer than 5,000 total electorate, as were three out of the four areas which had between 75 and 80 per cent of the electorate voting in contested elections. The areas in this group with the lowest percentage voting were Teignmouth U.D. (17.6), Barton-upon-Humber U.D. (18.0) and Wantage U.D. (19.3).

Central Index of Service Voters

During 1957, the Central Index of Service Voters (which is maintained by the General Register Office on an agency basis) received from Electoral Registration Officers 57,119 declarations by persons qualified to be included in the electoral registers as service voters. The categories of persons qualified as service voters are:

(i) any person who is a member of H.M. Forces;

- (ii) any person employed in the service of the Crown in a post outside the United Kingdom;
- (iii) any woman who is the wife of a service voter and is residing outside the United Kingdom to be with her husband.

A further 30,148 declarations were received in respect of persons under the age of 21 years. The Central Index notified Electoral Registration Officers of 38,882 persons who had made declarations before reaching the age of 21 years but who, during 1957, attained that age. Altogether 96,001 new service voters were added to the electoral registers.

In the same period Electoral Registration Officers were notified of 93,788 names of persons whose declarations ceased to be in force, and 21,814 declarations by persons under full age were cancelled because they ceased to have a service qualification before attaining full age.

APPENDIX A

FERTILITY RATES BY BIRTH ORDER, ENGLAND AND WALES, 1957

Live births per woman married once only, irrespective of parity

Figures are rounded and may not add to totals

1957

Calendar year of marriage		1957 1956 1955 1954 1953	1952 1951 1950 1949 1948	1947 1946 1945 1944	1942 1941 1940 1939 1938	1937 1936 1935 1934 1933	1932					
			4 or more	0000	.000 .000 .000 .000 .009	.009 .009 .009 .008	90222	.000				
			3	.000 .000 .001 .002	.008 .010 .013 .012 .012	.010 .007 .006 .006	.003 .002 .001 .001	000.				
	6		2	.001 .001 .006 .016	.032 .033 .031 .025	.015 .015 .008 .008	.004 .002 .001 .000	000.				
	25-29		-	.002 .014 .068 .098 .097	.081 .064 .053 .035	.020 .013 .009 .006		000.				
			0	.075 .308 .162 .105	.048 .033 .022 .014	.006 .004 .002 .001	000000	000.				
			Total	.077 .324 .237 .221 .201	.172 .144 .127 .095	.051 .051 .029 .029	.010 .006 .004	.000				
			4 or more	000000	.002 .005 .009 .011	0015 0015 0014 0013	.010 .000 .000 .000 .007	9007	.001			
			3	0000	.011 .013 .016 .015	.014 .013 .010 .009	.006 .005 .004 .003	000000000000000000000000000000000000000	000			
					7	.000 .001 .005 .018	.037 .038 .039 .031	.024 .020 .016 .014 .012	.009 .006 .004 .003	0000000	000	
	20-24	ci ci		.001 .015 .076 .102	.093 .076 .062 .043	.024 .016 .013 .009	.005 .002 .002 .001	999999	000			
	hildren	childre	0	.083 .309 .162 .103	.053 .037 .026 .016 .016	.003 .003 .003		999991	000			
Age at marriage		vious o	Total	.084 .324 .243 .225 .218	.196 .169 .153 .117	.084 .069 .049 .043	.036 .029 .024 .019	.010 .007 .003 .003	.001			
ge at m		3	Number of previous children	4 or more	11666	.005 .012 .022 .027	.033 .034 .029 .029	.025 .025 .024 .027	.025 .022 .016 .012	800.		
Ag				3 1	100000000000000000000000000000000000000	.025 .029 .035 .029	.026 .022 .019 .016	.012 .012 .008 .006	9000000	.001		
	20			Z	Z	2	000000000000000000000000000000000000000	.065 .061 .043 .039	.033 .027 .021 .017	000 000 000 000 000	966666	.001
	Under							1	.001 .033 .142 .147	.099 .075 .040 .029	.023 .018 .010 .010	.005 .005 .003 .002
			0	.185 .385 .147 .077	.034 .026 .018 .011	.007 .005 .003 .003		<u> </u>	000			
			Total	.186 .418 .297 .267	.229 .205 .189 .150	.121 .106 .090 .074	.054 .054 .051 .047	.038 .030 .021 .016	010			
			4 or more	00000	.003 .006 .010 .012	015 015 014 014	.010 .008 .008	0002	100-			
	45		3	0000000	.015 .015 .018 .016	.014 .012 .009 .009	.005 .005 .003 .002	999999	000			
	ınder 4		7	.000 .001 .021 .035	.039 .039 .030 .026	.022 .017 .015 .015	000000000000000000000000000000000000000	<u>666666</u>	000			
	All ages under		-	.001 .019 .087 .107	.087 .068 .055 .038	.021 .014 .008 .006	000000000000000000000000000000000000000	<u>.</u>	000			
	IIA		0	.105 .320 .154 .094	.046 .032 .022 .014	902 902 902 902	999999	88888	000			
			Total	.106 .339 .247 .224 .213	. 187 . 160 . 143 . 109	.078 .063 .053 .045	.033 .026 .021 .016	000000000000000000000000000000000000000	.001			
Calendar year of marriage		1957 1956 1955 1954 1953	1952 1951 1949 1948	1947 1946 1945 1944	1942 1941 1940 1939	1937 1936 1935 1934	1932					

1957—continued

	Calendar	of marriage		1957 1956 1955 1954 1953	1952 1951 1950 1949 1948	1947 1946 1945 1944	1942		
			4 or more	8 18	1				
			6	11888	1				
	4		7	199999	l				
	40 44		-	.000 .000 .000 .000 .000 .000	.001				
			0	.016 .053 .021 .009	.002				
			Total	.016 .055 .027 .015	.003				
			4 or more	18888	99999	000.			
		hildren	<i>د</i>	900000		000.			
Age at marriage	6	Number of previous children	- 2	000000000000000000000000000000000000000		.001			
e at m	35-39	of prev	_	.001 .012 .035 .045		000			
Ag		mber	0	.052 .092 .042 .021	000 000 000 000 000 000 000 000	000			
-		Ž	Total	.055 .207 .131 .096	.025 .025 .008 .005	.002			
			4 or more	000000000000000000000000000000000000000	000000	.000 .000 .001 .001	.001		
			w 1	0000000	<u> </u>	0000 0000 0000 0000 0000	000		
	4		2	000 0002 0006 0014 0024	020 020 010 010	000 000 000 000 000 000 000 000 000 00	000		
1	30-34				-	.0014 .014 .081 .073	.039 .031 .010		000
			0	.071 .289 .140 .076	.003 .007 .007	600 600 600 600 600 600 600 600 600 600	000		
			Total	.074 .306 .210 .175	.124 .099 .080 .054 .035	.026 .015 .005 .005	.002		
	Calendar year of marriage			1957 1956 1958 1954 1953	1952 1951 1949 1948	1947 1946 1945 1944	1942		

APPENDIX B

INTERNATIONAL CLASSIFICATION OF DISEASES, 1955 REVISION— COMPARABILITY WITH 1948 LIST

From the beginning of 1958 statistics of cause of death have been compiled in accordance with the Seventh (1955) Revision of the International Statistical Classification of Diseases, Injuries and Causes of Death.

On the recommendation of the World Health Organization's Expert Committee on Health Statistics, the timing of the decennial revisions of the International Lists has been altered so that revision takes place in years ending in "5" and the revised Manual can be brought into use at the beginning of years ending in "8". The purpose of the change is to allow countries to familiarize themselves with the List before using it for mortality studies in relation to population figures from censuses, which in many countries are undertaken in years ending in "0" or "5". The Seventh Revision accordingly took place in 1955 and, since the previous List had been in use for a shorter period than usual, it was limited to essential changes.

For most causes of death, therefore, statistics compiled according to the Seventh Revision should be comparable with those compiled according to the Sixth Revision. For other causes, comparability may have been disturbed by changes in the International Classification itself or in the international rules for selection of cause of death, or in coding practice in the General Register Office. In order to evaluate these changes, deaths registered in the second half of 1957 were coded according to both the old and the new principles, and the results of this dual coding are presented in the Appendix Tables 2, 3, and 4 (pages 232–290).*

The ratio of Seventh Revision frequencies to Sixth Revision frequencies for persons, all ages, was calculated for each cause of death, and these ratios were used to estimate the numbers of deaths in each year 1949 to 1957 for Table 7 of Part I for 1958, the first year for which all deaths have been classified according to the new list. Similar ratios were calculated for children under 1 year of age for those causes distinguished in Table 11 of that publication. Causes where the Seventh Revision frequencies were within 2 per cent of the Sixth Revision frequencies, or where with numerically small causes there was a small absolute difference in the frequencies, were regarded as comparable. For causes where the difference was greater than 2 per cent, the ratios were used in one of two ways to correct the frequencies for 1949 to 1957:

- 1. Where there was a clear-cut transfer of deaths from one cause, x, to another cause, y, the proportion of x transferred to y during the period of dual coding was also transferred for the previous years. In other words, the ratio (comparability factor) was applied to cause x, the balance of x being added to cause y.
- 2. Where there was a more complex transfer of deaths between a group of causes, and the sum of the group was the same according to both methods of classification during the period of dual coding, the comparability factors were applied to each cause, and the frequencies thus calculated in each year were adjusted to sum to the total of the group on the old classification.

^{*} Table 2 shows causes where the numbers of deaths differ between the Sixth and Seventh Revisions; Table 3 shows causes where the numbers do not differ; and Table 4 shows causes for which no deaths were recorded in the period.

Other methods, not involving comparability factors, were used for a small number of causes. Appendix Table 1, below, lists the causes where comparability has been affected by changes in classification, gives details of these changes, and describes the method used to estimate the numbers of deaths in the years 1949 to 1957. Causes which have been affected by a change in General Register Office coding practice, as distinct from a change in the International Classification, have been marked with an asterisk.

Table 1. Principal changes resulting from the Seventh (1955) Revision of the International Classification of Diseases, and methods used to estimate numbers of deaths in years 1949 to 1957, England and Wales

Category and change	Comparability factor (CF) or other method
A. Causes affected in Table 7, Statistical Review, Part I. 022 Aneurysm of aorta	CF 0·79
023 Other cardiovascular syphilis	CF 0·82
040 Typhoid fever	These deaths have been distinguished as "late effects" in footnotes to Table 7, and have been deducted for 1949-1957. They will, however, continue to appear in footnotes.
053* Septicaemia and pyaemia	Deaths at under 4 weeks deducted.
155 Malignant neoplasm of biliary passages and of liver (stated to be primary site)	CF 0·94
156 Malignant neoplasm of liver (secondary and unspecified) See 155.	Balance of 155 added.
162 Malignant neoplasm of bronchus and trachea, and of lung specified as primary Malignant neoplasm of lung now assigned to 163 unless specified as primary (previously assigned to 162 if it could be assumed to be primary).	CF 0.89 Because of a change in coding practice in 1954 this method can be used only for 1955–1957. For previous years only the total of 162 + 163 is shown.
163 Malignant neoplasm of lung, unspecified as to whether primary or secondary See 162.	Balance of 162 added (1955–1957 only).

Category and change	Comparability or other n	
199 Malignant neoplasm of other and unspecified sites Now includes malignant neoplasm of more than one site with no indication as to which was the primary (previously assigned to the first mentioned site).	CF Figures for c malignant ne justed so the malignant ne unaltered. The nowhere excee cent.	oplasm ad- at total of oplasms is adjustment
204.0 Lymphatic leukaemia	CF	0.64
204.1 Myeloid leukaemia	CF	0.55
204.3 Acute leukaemia	Balance of 204.1 added.	204.0 and
241 Asthma	CF	0.71
298 Diseases of spleen	CF	1.44
340.1 Pneumococcal meningitis	CF	0.80
Now includes residuals of birth injury at ages 4 weeks +, instead of 1 year + (previously assigned to 760 "Intracranial and spinal injury at birth"). See also 352.	CF	1.12
352 Other cerebral paralysis	CF	1.03
420.0 Arteriosclerotic heart disease so described Now excludes this condition when reported as due to other heart conditions or hypertension.	CF	0.98
420.1 Heart disease specified as involving coronary arteries Now includes these conditions with mention of functional disease of heart.	CF	1.02
420.2 Angina pectoris without mention of coronary disease Now excludes these conditions when reported as due to certain heart conditions.	CF	0.96
421 Chronic endocarditis not specified as rheumatic	CF 421·0 421·1 421·4	1·12 1·02 1·05
Now includes these conditions when reported as due to arteriosclerosis or hypertension.		

Table 1—continued

Category and change	Comparability f or other m			
Now assigned to 433 if functional disease of heart is also mentioned.	CF 422·0 422·1 422·2	0·94 0·98 0·91		
433 Functional disease of heart	CF	2·12		
434 Other and unspecified diseases of heart	CF	0.95		
441 Essential malignant hypertensive heart disease Now includes conditions in 442 if described as malignant (previously assigned to 442).	CF	1.15		
442 Hypertensive heart disease with arteriolar nephrosclerosis See 441.	CF	0.96		
443 Other and unspecified hypertensive heart disease Now includes functional disease of heart with hypertension.	CF	1.03		
444 Essential benign hypertension	CF	1 · 34		
445 Essential malignant hypertension	CF	2.05		
446 Hypertension with arteriolar nephrosclerosis	CF	0.97		
447 Other hypertensive disease without mention of heart Hypertension with arteriosclerosis now assigned to 444.	CF	0.002		
450.0 General arteriosclerosis without mention of gangrene Now assigned to 433 if functional disease of heart is mentioned. "Aneurysm due to arteriosclerosis" now assigned to 452.	CF	0.90		
451 Aortic aneurysm, non-syphilitic, and dissecting aneurysm. Now includes aneurysm of abdominal aorta unless specified as syphilitic (previously assigned to 022).	CF	1.23		
452 Other aneurysm, except of heart and aorta Now includes these conditions when reported as due to arteriosclerosis (previously assigned to 450.0).	CF	1.56		
Now includes "meningitis due to pneumonia" (previously assigned to 340.1 "pneumococcal meningitis").	Balance of 340.1 distributed over the four categories, increasing them by about 0.25 per cent.			

Category and change	Comparability factor (CF) or other method
Now includes these conditions with mention of asthma not indicated as allergic but excludes them with mention of	Difference between the sums of 241 + 526 on old and new classifications distributed over the three categories, increasing them by about 0.5 per cent for males and 2 per cent for females.
bronchiectasis.	
517 Other diseases of upper respiratory tract "Ludwig's angina" now assigned to 538 "Other diseases of buccal cavity".	CF 0·74
526 Bronchiectasis	CF 1·30
538 Other diseases of buccal cavity	Balance of 517 added.
572.1 Diverticulitis	Balance of 578 added.
578 Other diseases of intestines and peritoneum See 572.1.	CF 0.90
592 Chronic nephritis	CF 0.97
593 Nephritis not specified as acute or chronic Now assigned to 445 if malignant hypertension is also mentioned.	CF 4 0-85
Now assigned elsewhere when interval between onset and death is 1 year or more.	These deaths have been distinguished as "late effects" in footnotes to Table 7, and have been deducted for 1949–1957. They will, however, continue to appear in footnotes.
751* Spina bifida and meningocele	CF 0·79
752* Congenital hydrocephalus	Balance of 751 added.
760 Intracranial and spinal injury at birth	CF 0.97
762 Postnatal asphyxia and atelectasis	CF 0.96

Table 1—continued

Category and change	Comparability factor (CF) or other method			
768* Other sepsis of newborn	Deaths assigned to 053			
Now includes septicaemia and pyaemia at ages under 4 weeks (previously assigned to 053 "Septicaemia and pyaemia").	at under 4 weeks added.			
773 Ill-defined diseases peculiar to early infancy See 762.	Balance of 762 added.			
782.4* Acute heart failure, undefined	CF 2·76			
794* Senility without mention of psychosis Now includes "myocardial failure due to senility" (previously assigned to 422.2 "Other myocardial degeneration").	CF 1·08			
B. Causes affected in Table 10, Statistical Review, Part I. (Ages under 1 year.) Rem. of 001-138* Other infective and parasitic diseases Septicaemia and pyaemia now assigned to 768 "Other sepsis of newborn" at ages under 4 weeks (previously assigned to 053 "Septicaemia and pyaemia").	Deaths assigned to 053 at under 4 weeks deducted.			
751* Spina bifida and meningocele No longer includes joint mention of these conditions and congenital hydrocephalus in 752.	CF 0·79			
752* Congenital hydrocephalus	Balance of 751 added.			
760, 761 Injury at birth	CF 0.98			
762 Postnatal asphyxia and atelectasis	CF 0.96			
766–768* Pemphigus and sepsis of newborn See remainder of 001–138.	Deaths assigned to 053 at under 4 weeks added.			

Table 2. Causes of death by sex and age according to the Sixth (1948) and Seventh (1955) Revisions, July-December 1957, England and Wales

Note. Only causes are shown where the numbers of deaths differ between the Sixth and Seventh Revisions.

Certain 4th-digit sub-divisions of general interest are shown.

					Ι .				TU	JBERG	CULO	SIS			
Causes of death	All C	auses			-138	-		001-019				001–008			
					Infective and Parasitic Diseases			All forms				Respiratory system			
A			1	M	J	F	N	M	. 1	F	N	VI !	1	F	
Ages at death	Males	Females	6th Rev.	7th Rev.	6th Rev.	7th Rev.	6th Rev.	7th Rev.	6th Rev.	7th Rev.	6th Rev.	7th Rev.	6th Rev.	7th Rev.	
All ages	136440	125751	2617	2530	1329	1280	1721	1713	705	703	1607	1602	571	571	
0 1 5	4694 719 452 470	3496 579 308 333	58 60 35 20	52 60 34 19	54 53 29 9	48 53 29 9	3 7 4 5	3 7 3 5	16 5 4	4 16 5 4	-1 -1	-1 -1	2 2 1	2 2 1	
15 20	746 875	355 438	20 29	20 29	15 27	15 27	6 13	6 13	9 11	9 11	1. 9	1 9	3 8	3 8	
25 30 35 40	866 1045 1551 2463	592 831 1318 1887	45 82 95 137	44 82 95 135	76 90 100 88	75 88 99 88	15 46 66 101	15 46 66 100	55 66 82 69	55 65 82 69	12 44 60 89	12 44 60 88	50 64 71 63	50 64 71 63	
45 50 55	4475 7704 11822 14583	3040 4622 6492 9403	180 233 314 364	181 232 306 351	69 87 92 95	69 85 93 93	135 185 232 274	135 184 230 274	50 52 55 44	50 52 56 44	123 180 221 264	123 180 220 264	44 45 43 30	44 45 44 30	
65 70	18515 20549	13290 18519	357 324	346 300	97 123	92 115	249 227	249 225	42 62	42 63	243 216	243 214	34 50	34 51	
75 80 85 and over	19890 15234 9787	21733 20192 18323	170 63 31	158 58 28	107 76 42	100 68 34	101 37 15	101 36 15	45 25 9	44 23 9	94 35 14	94 34 14	36 17 8	35 16 8	

							TU	BERC	CULOS	SIS						
Causes of		00				0	02		003				003 · 1			
death	v	iratory vith me upation of l	ntion o	f		Pulmonary tuberculosis			Pleural tuberculosis				Pleurisy with effusion without mention of cause			
A	1	VI.]]	F	N	Л	1	F	1	VI.	. :	F	M		1	F
Ages at death	6th Rev.	7th Rev.	6th Rev.	7th Rev.	6th Rev.	7th. Rev	6th Rev.	7th Rev.	6th Rev.	7th Rev.	6th Rev.	7th Rev.	6th Rev.	7th Rev.	6th Rev.	7th Rev.
All ages	116	116	-	1	1475	1471	563	563	13	12	6	5	8	7	6	5
0 1 5				_	i	_1	1 2 1	1 2		marida "	_1	1	=	-	_1	1
10	_	-		_	1	1		^	_			******			-	-
15 20	_		_		1 9	1 9	3 8	3 8	_	Security .		_			_	
25	=		Brotherson (1	12 43	12 43 58	49 64	49 63	_ ₁	1	_		_	_	=	
35 40	1	1	_		58 86	85	71 63	71 63	1	_1		_	_	_	_	_
45 50 55	6 18 19 27	6 18 19 28		_	117 162 201 236	117 162 201 235	44 44 43 30	44 44 44 30	_ _ 1 1	=		_ ₁	_ _ 1	_ _ _ 1	_1 _	_ ₁
65 70	22 13	22 13			218 201	218 199	31 49	31 50	2 2	2 2	_3	_3	2	2	_3	3
75 80 85 and over	6 3 —	6 2 —			85 31 13	85 31 13	35 17 8	35 16 8	3 1 1	3 1 1	_1	100 to 10	1 1 1	1 1 1	_1	

Table 2		Ontin	ncu														
		TUBERCULOSIS															
Causes of death		010-019				010				012				012.0			
		Other forms				Meninges and central nervous system			Bones and joints, active or unspecified			Active or unspecified tuberculosis of vertebral column					
Ages at death		M F			3	M F			F	M F			M		F		
		6th Rev.	7th Rev.	6th Rev.	7th Rev.	6th Rev.	7th Rev.	6th Rev.	7th Rev.	6th Rev.	7th Rev.	6th Rev.	7th Rev.	6th Rev.	7th Rev.	6th Rev.	7th Rev.
All ages		114	111	134	132	21	23	30	33	• 19	19	25	24	15	15	18	17
0 1 5		3 6 4	3 6 3	14 4	2 14 4	1 4 4	2 5 3	11 3 2	12 3 3	_ ₁	_1		_	_1	_1	=	_
10	• • •	4	4	4	4	4	4						_	_	_	_	_
15 20		5 4	5 4	6 3	6	3	3	2	3			=		=		_	=
25 30		3 2	3 2 6	5 2	5 1	-1	- 1	_2	_2	_	_	1 2	- ₁		_	-1	- 1
35- ·· 40- ··		6 12	6 12	11 6	11 6	=		1	1	1	1	_2	_2	1	1	=	_
45 50 55		12 5 11	12 4 10	6 7 12 14	6 7 12 14	-1 1	1	1 1 2	1 1 2	3 1 1 2	3 1 1 2	1 3 3	2 1 3 3	1 1 1 2	1 1 1 2	$\begin{bmatrix} 2 \\ -2 \\ 2 \end{bmatrix}$	
60	• •	10	10	8	8		1	1		1	1			1	1	2	
65 70		11	11	12	12	-		-		. 6	6	5	2 5	5	5	5	5
75 80 85 and ov	ver	7 2 1	7 2 1	9 8 1	9 7 1	_ _1	_1	_2	_2	$-\frac{2}{1}$	- 2 1	4 2 —				3 1	3

	TUBERCULOSIS															
Causes of	016				017			018				019				
death	Genito-urinary system				Adrenal glands			Other organs				Disseminated tuberculosis				
	N	1	F		M		F		M		F		М		F	
Ages at death	6th Rev.	7th Rev.	6th Rev.	7th Rev.	6th Rev.	7th Rev.	6th Rev.	7th Rev.	6th Rev.	7th Rev.	6th Rev.	7th Rev.	6th Rev.	7th Rev.	6th Rev.	7th Rev.
All ages	39	38	26	26	5	4	5	5	5	5	4	3	15	12	22	· 19
0 1	=	_		=		_	=	_	_	_	_	_	2 1	_1	1 2	1 1
5	_	_	=	_		_		_	-				-	_	2	1
15 20	1 3	1 3	_2	_2		-	_	=	_		_	_	=	_	_2	_1
25 30	_3	_3	_1	_1	=	0	_	_	=	=	-1	=	=	_	_1	1
35 40	6	4 6	5 2	5 2	1 1	1	_		1	1	-1	'	3	3	3	3
45 50	4 3 5	4 2 5 3	1 2 4	1 2 4	=		- ₁	1	1 1	1	=	_	_2	_2	-2	2
55	5 3	5	3	4 3	2	1		_2	=			_	2		2 2	2 2
65 70	1 4	1 4	2	2 1	=	onesse .	-1	1	1 _1	_1	1	1	1	2	2	2
75 80 85 and over		2	3	_3 			_1 _1	_1	1 	_1	_1	_1	1	1 1	1 -1	1 1 —

Table 2-continued

75- .. 80- .. 85 and over

	TUBERO	CULOSIS	020-	029	0	22	023			
Causes of death	dissem	orms of inated culosis	Syphilis and			n of aorta	Other cardiovascular syphilis			
	M	. F	M	F	М	F	М	F		
Ages at death	6th 7th Rev. Rev.	6th 7th Rev. Rev.	6th 7th Rev. Rev.	6th 7th Rev. Rev.	6th 7th Rev. Rev.	6th 7th Rev. Rev.	6th 7th Rev. Rev.	6th 7th Rev. Rev.		
All ages	15 12	21 18	430 338	218 182	231 182	132 103	127 104	43 36		
0 1 5	2 1 1 —	$\begin{bmatrix} 1 & 1 \\ 2 & 1 \\ -1 & - \end{bmatrix}$	= $=$ $=$ $=$ $=$ $=$ $=$ $=$ $=$ $=$		= $=$ $=$ $=$ $=$ $=$ $=$ $=$ $=$ $=$					
15 20	desired finance	2 1	section consists	= =	= =	= =	= =	= =		
25 30 35 40	$\begin{bmatrix} - \\ - \\ 3 \end{bmatrix}$	$\begin{bmatrix} 1 & 1 \\ -1 & -1 \\ 3 & 3 \end{bmatrix}$	$\begin{array}{cccccccccccccccccccccccccccccccccccc$	1 1 1 3 2 4 4	$\begin{array}{cccccccccccccccccccccccccccccccccccc$	= =	$\begin{array}{cccc} - & - & - & 2 & 2 & 1 & - & 6 & 6 & 6 & 6 & 6 & 6 & 6 & 6 & 6$	$\begin{array}{cccc} - & - & - & 1 & 1 & 1 & 1 & 1 & 1 & 1 &$		
45 50 55	$\begin{bmatrix} 2 & 2 \\ -2 & -1 \\ 2 & 1 \end{bmatrix}$	$\begin{bmatrix} 2 & 2 \\ -2 & 2 \\ 2 & 2 \end{bmatrix}$	9 9 17 16 61 55 70 57	3 3 12 10 17 17 24 23	1 2 4 3 24 24 40 31	1 1 5 3 7 7 9 9	7 6 8 8 28 22 21 17	1 1 1 1 5 5 11 10		
65 70	2 2 1 1	2 2 1	88 76 81 60	34 29 36 28	39 33 57 40	18 13 23 16	25 19 16 12	8 8 2		
75 80 85 and over	1 1 1 1 1 1	1 1 1	56 44 18 14 7 4	41 37 24 18 19 10	41 29 14 11 6 3	31 29 20 15 16 9	9 9 3 2 1 1	4 2 4 3 2 —		
Causes of death	General	25 paralysis isane		29 unqualified	Infectiou commonly	-049 s diseases arising in aal tract	040 Typhoid fever			
Ages at	М	F	М	F	М	F	М	F		
death	6th 7th Rev. Rev.	6th 7th Rev. Rev.	6th 7th Rev. Rev.	6th 7th Rev. Rev.	6th 7th Rev. Rev.	6th 7th Rev. Rev.	6th 7th Rev. Rev.	6th 7th Rev. Rev.		
All ages	22 21	11 11	2 3	1 1	32 33	20 19	1 1	3 2		
0 1 5 10	= =	= =			$\begin{bmatrix} 4 & 4 \\ 1 & 1 \\ -1 & -1 \end{bmatrix}$	$\begin{array}{ c c c c c c c c c c c c c c c c c c c$	= =			
15 20	= =	= =	= =	= =	3 3 1 1			= =		

2 2 4

Table 2—continued

Table 2-C	Omm	ieu														
Causes of death	(i	04 ood po infection intoxic	isoning on and		(050– Other badisea	acterial			05 Scarlet			S	Septicae	53 emia an emia	d
	М	.	1	R	N	1	F		N	1 :	I	7	N	Л	I	7
Ages at death	6th	7th Rev.	6th Rev.	7th Rev.	6th Rev.	7th Rev.	6th Rev.	7th Rev.	6th Rev.	7th Rev.	6th Rev.	7th Rev.	6th Rev.	7th Rev.	6th Rev.	7th Rev.
All ages	1	2			111	101	100	92	2	1	5	2	23	17	23	17
0 1 5 10	=				36 31 7 2	30 31 7 .1	38 21 4	32 21 4	= -	_	- 1 -	- 1 -	10 3	4 3 —	7 4 —	1 4 —
15 20		_		_	2 2	2 2	_1	1	·		Standard Standard		1	_1	_	_
25	=				-1 -1	_4 	1 3 1 2	1 2 1 2	= 1		_1.	Section Sectio	1 	_1	1 1 1	1 1
45			= 7	=	5 2 3 5	5 2 3 5	2 3 2 5	2 3 2 4	=		1		1 1 1	2 1 1 1	- 1 - 2	
65	_1	_2	^		3	3 2	5 5	5 5	= 1	_		-	_1	_1	1 3	. 3
75 80 85 and over		_	contract orderapt		2 1 1	2 1 1	3 4	2 4 1	_1 	, <u>1</u>	_1	annual an	-1 1	1 1		_3
_									I						1	
		0.5	54			0:	56			0:	57			: 080)-096	
Causes of death	Bac	05	54 toxaen	nia	V		56	h.			ococca	1	Di	iseases	0-096 attribut iruses	able
		cterial	toxaen			/hoopii	6	h		Mening	cococca	ı F		iseases	attribut iruses	able
	Bac M 6th Rev.	cterial	toxaen	F 7th			ng coug	h		Mening infec	cococca			iseases to v	attribut iruses	
death Ages at	M 6th	cterial I 7th	toxaen	F 7th	6th	/hoopin	ng coug	7	6th	Mening infec	ococca tions	F 7th	1 6th	iseases to v	attribut iruses	7th Rev.
Ages at death	M 6th	cterial I 7th	toxaen	F 7th Rev.	6th Rev.	/hoopis	ong coug	7th Rev.	6th Rev.	Mening infec	6th Rev.	7th Rev.	6th Rev.	M 7th Rev.	attribut iruses 6th Rev.	7th Rev.
Ages at death All ages 0 5	M 6th	cterial I 7th	toxaen	F 7th Rev.	6th Rev.	/hoopin	for a cought of the cought of	7th Rev.	6th Rev. 53	Mening infector 7th Rev. 51 21 23	6th Rev.	7th Rev. 48 20 16	16th Rev. 266 15 20 24	7th Rev. 267	attribut iruses 6th Rev. 255 5 15 18	7th Rev. 253
Ages at death All ages 0 1 10 15	M 6th	cterial I 7th	toxaen	F 7th Rev.	6th Rev.	/hoopin	for a cought of the cought of	7th Rev.	53 21 23 3 1	Mening infector of the control of th	6th Rev. 48 20 16 2	7th Rev. 48 20 16 2	16th Rev. 266 155 200 24 111 8 122 28 29 19 13	7th Rev. 267 15 20 24 11 8 12 28 29 9 13	6th Rev. 255 5 15 18 20 18	7th Rev. 253 5 15 18 5 16 19 18 13 9
Ages at death All ages 0	M 6th	cterial I 7th	6th Rev.	7th Rev.	6th Rev. 6 5	7th Rev. 5 5	11 10 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	7th Rev.	53 21 23 3 1	Mening infector of the control of th	6th Rev. 48 20 16 2 - 1	7th Rev. 48 20 16 2 - 1 - 1 - 1 - 1 - 1 - 1	16th Rev. 2666 155 20 244 11 8 12 28 29 19 13 20 155 9	7th Rev. 267 15 20 24 11 8 12 28 29 19 13	6th Rev. 255 5 15 18 20 18	7th Rev. 253 5 15 18 5 16 19 18 13 9 10 16 13 18
Ages at death	M 6th	Tth Rev.	toxaen	7th Rev.	6th Rev.	/hoopin	for a cought of the cought of	7th Rev. 11 10 -1	53 21 23 3 1	Mening infector of the control of th	6th Rev. 48 20 16 2 - 1	7th Rev. 48 20 16 2 - 1	16th Rev. 266 155 200 24 111 8 122 28 29 19 13	M 7th Rev. 267 15 20 24 11 8 12 28 29 19 13 20 16 9 9 6 7	255 5 16 20 18 13 9 10	7th Rev. 253 5 15 18 5 16 19 18 13 9

Table 2—continued

Causes of death Causes of			U	31		1	08	32		1	08	33			088		
All ages According to the color Accordin					is	A			s	4	acute in	fectiou	s S		Herpe	s zostei	
Geath Gith 7th Gith 7th Gith 7th Gith 7th Rev. Rev		N	1	F	7	N	1	1	F	1	M		F	1	M		F
O							7th Rev.										
10 1 1 2 2 1 1 15 1 1 2 2 2 1 1 20 1 1 2 2 2 2 25 3 3 2 2 2 2 2 35 1 1 2 2 2 1 1 2 2 2 3 3 35 1 1 2 2 2 1 1 2 2 2 3 3 45 1 1 2 2 2 1 1 2 2 2 3 3 45 1 1 2 2 2 1 1 1 55 2 2 2 2 2 2 2 3 3 55 2 2 2 2 2 2 2 3 3 55 2 2 2 2 2 2 2 3 3 65 1 1 2 2 2 2 4 4 5 5 65 1 1 1 1 1 1 2 2 2 2 3 3 75 1 1 1 1 1 2 2 2 2 5 5 80 1 1 1 1 2 2 2 2 5 5 80 1 1 1 1 1 1 1 1 1	All ages	10	9	2	2	31	32	25	25	21	22	22	22	14	14	33	32
10 1 1 2 2 1 1 15 1 1 2 2 2 1 1 20 1 1 2 2 2 2 25 3 3 2 2 2 2 2 35 1 1 2 2 2 1 1 2 2 2 3 3 35 1 1 2 2 2 1 1 2 2 2 3 3 45 1 1 2 2 2 1 1 2 2 2 3 3 45 1 1 2 2 2 1 1 1 55 2 2 2 2 2 2 2 3 3 55 2 2 2 2 2 2 2 3 3 55 2 2 2 2 2 2 2 3 3 65 1 1 2 2 2 2 4 4 5 5 65 1 1 1 1 1 1 2 2 2 2 3 3 75 1 1 1 1 1 2 2 2 2 5 5 80 1 1 1 1 2 2 2 2 5 5 80 1 1 1 1 1 1 1 1 1		_				6 5	6	2 5	2 5	=	_	_	_	-			
25 3 3 2 2 2 2 3 3 3	5	1	1	=			_2	1	1			_					
36 3 3 3 2 2 2 2 2 2 3 3 3		_1	1	=		_2	_2	2 2	2 2	_	annound diseases	=	-	=			_
Ages at death Gith 7th Gith	30		3			2 2	2 2	3	3	=		=	_	=			
Solution Solution		1	1	_	_	2 2	2 2	1	_1	2 2	2	3	3	_	_		
65	50	_1	1_1	_		3 2	3	2	1	4 5		4 3	3	-1	1	_	
To To To To To To To To	60	1	1	_	_	_2	2	2 2	2 2	4	2 4	3 5	3 5	_		_	_
Causes of death Infectious hepatitis Other infective and parasitic diseases Schistosomiasis I13 I40-239 Neoplasms		_1	_		=		1	_1	_1	1	_2		2	=		1 2	
Causes of death Causes of	80	=		=	_	=				1	1	-	= ,	2 4 7	4	14	5 14 11
Causes of death Causes of																1	
Ages at death																	
M			09	2			120-	138			. 12	.3		1	NEOPI	LASM	S
Ages at death 6th 7th Rev. Rev. <		Inf			ia.		other in	afective						1	I	I	S
Ages at death 6th 7th Rev. Rev. <		Infe			is		Other ir and pa	nfective rasitic		S					I 140-	I -239	S
All ages 63 63 89 88 42 43 28 28 — 1 — — 26304 26293 23030 23025 0 5 5 — — — — 3 3 3 — — — — 95 94 57 57 57 5 4 4 2 2 2 — — 1 1 — — 63 63 43 43 43 10 2 2 1 1 1 — — — — — 62 62 62 43 43 10 2 2 1 1 1 — — — — — — 74 74 38 38 20 1 1 1 5 5 1 1 1 — — — — — — 79 79 51 52 25 1 1 5 5 1 1 — — — — — — 130 130 81 81 30 2 2 2 3 3 3 — — 1 1 — — — — 130 130 81 81 30 2 2 2 3 3 3 3 3 3 3 2 2 2 — — — 130 130 81 81 81 30 3 3 3 3 3 3 3 3 3 3 2 2 2 — — — 574 574 748 748 748 45 8 8 8 4 4 4 5 6 6 3 3 3 — — — — 574 574 748 748 748 748 748 748 748 749 749 75 77 7 9 9 9 9 9 9 4 4 4 — — — 303 303 303 435 435 60 7 7 7 9 9 9 9 9 4 4 4 — — — 303 303 303 303 302 3025			ectious	hepatit			Other ir and pa disea	nfective rasitic ases			chistos	omiasis			I 140- Neop	I -239 lasms	
0 5 5 <	death	M 6th	ectious I 7th	hepatiti	7th	M. 6th	Other ir and pa disea	rasitic ases	7th	N 6th	Chistos I 7th	omiasis F 6th	7th	6th	I 140- Neop	I -239 lasms	F 7th
1 2 2 2 2 1	death	M 6th	ectious I 7th	hepatiti	7th	M. 6th	Other ir and pa disea	rasitic ases	7th	N 6th	Chistos I 7th	omiasis F 6th	7th	6th	I 140- Neop	I -239 lasms	F 7th
15 1 <td< td=""><td>Ages at death All ages</td><td>6th Rev.</td><td>7th Rev.</td><td>F 6th Rev.</td><td>7th Rev.</td><td>6th Rev.</td><td>Other in and pa disea</td><td>afective rasitic ases From 6th Rev.</td><td>7th Rev.</td><td>N 6th</td><td>7th Rev.</td><td>omiasis F 6th</td><td>7th</td><td>6th Rev. 26304</td><td>140- Neop M 7th Rev. 26293</td><td>1 -239 lasms 6th Rev. 23030</td><td>7th Rev. 23025</td></td<>	Ages at death All ages	6th Rev.	7th Rev.	F 6th Rev.	7th Rev.	6th Rev.	Other in and pa disea	afective rasitic ases From 6th Rev.	7th Rev.	N 6th	7th Rev.	omiasis F 6th	7th	6th Rev. 26304	140- Neop M 7th Rev. 26293	1 -239 lasms 6th Rev. 23030	7th Rev. 23025
20 1 1 5 5 1 1 - - - - 79 79 79 51 52 25 2 2 4 3 1 1 - - - - 130 130 81 81 81 81 81 82 22 3 3 3 3 3 3 3 3 3 3 3 3 3 435 445 440 -	Ages at death All ages	6th Rev.	7th Rev.	F 6th Rev.	7th Rev.	6th Rev.	Other in and pa dises	fective rasitic ases F 6th Rev. 28	7th Rev. 28	N 6th	7th Rev.	omiasis F 6th	7th	6th Rev. 26304 25 95	140- Neopo M 7th Rev. 26293	6th Rev. 23030 24	7th Rev. 23025
30 2 2 3 1 1 - <td< td=""><td>Ages at death All ages 0</td><td>63 5 2 4</td><td>7th Rev. 63 5 2 4 2</td><td>F 6th Rev. 89</td><td>7th Rev. 88</td><td>6th Rev.</td><td>Other ir and pa disea</td><td>fective rasitic ases F 6th Rev. 28</td><td>7th Rev. 28</td><td>N 6th</td><td>7th Rev.</td><td>omiasis F 6th</td><td>7th</td><td>26304 25 95 63 62</td><td>1 140- Neop M 7th Rev. 26293 25 94 63 62</td><td>6th Rev. 23030 24 57 43 43</td><td>7th Rev. 23025 23 57 43 43</td></td<>	Ages at death All ages 0	63 5 2 4	7th Rev. 63 5 2 4 2	F 6th Rev. 89	7th Rev. 88	6th Rev.	Other ir and pa disea	fective rasitic ases F 6th Rev. 28	7th Rev. 28	N 6th	7th Rev.	omiasis F 6th	7th	26304 25 95 63 62	1 140- Neop M 7th Rev. 26293 25 94 63 62	6th Rev. 23030 24 57 43 43	7th Rev. 23025 23 57 43 43
45 8 8 4 4 5 6 3 3 - 1 - - 1257 1256 1302 1302 50 7 7 9 9 9 9 4 4 - - - - - 2137 2136 1780 1780 55 5 5 8 8 2 2 3 3 - - - - - 3336 3335 2277 2276 60 3 3 7 7 6 6 2 2 - - - - 4114 4115 3081 3082 70 6 6 10 10 4 4 3 3 - - - - 4089 4088 3336 3334 75 3 3 3 1 1 - <td>Ages at death All ages 0</td> <td>6th Rev. 63 5 2 4 2 1</td> <td>7th Rev. 63 5 2 4 2</td> <td>F 6th Rev. 89 - 2 2 1 1 1</td> <td>7th Rev. 88 2 2 1 1</td> <td>6th Rev. 42</td> <td>Other ir and pa disea</td> <td>fective rasitic ases F 6th Rev. 28</td> <td>7th Rev. 28</td> <td>N 6th</td> <td>7th Rev.</td> <td>omiasis F 6th</td> <td>7th</td> <td>6th Rev. 26304 25 95 63 62 74</td> <td>1 140- Neop M 7th Rev. 26293 25 94 63 62 74</td> <td>239 lasms 6th Rev. 23030 24 57 43 43 38</td> <td>7th Rev. 23025 23 57 43 43 38</td>	Ages at death All ages 0	6th Rev. 63 5 2 4 2 1	7th Rev. 63 5 2 4 2	F 6th Rev. 89 - 2 2 1 1 1	7th Rev. 88 2 2 1 1	6th Rev. 42	Other ir and pa disea	fective rasitic ases F 6th Rev. 28	7th Rev. 28	N 6th	7th Rev.	omiasis F 6th	7th	6th Rev. 26304 25 95 63 62 74	1 140- Neop M 7th Rev. 26293 25 94 63 62 74	239 lasms 6th Rev. 23030 24 57 43 43 38	7th Rev. 23025 23 57 43 43 38
60 4 4 11 11 2 2 4 4 4 — — — 3723 3723 2823 2822 65 3 3 7 7 7 6 6 6 2 2 2 — — — 4114 4115 3081 3082 70 6 6 6 10 10 4 4 4 3 3 3 — — — — 4089 4088 3336 3334 75 3 3 10 10 3 3 3 — — — — 3292 3287 3181 3176 80 2 2 3 3 3 1 1 — — — — 1949 1946 2260 2264	Ages at death All ages 0	6th Rev. 63 5 2 4 2	7th Rev. 63 5 2 4 2	F 6th Rev. 89 2 1 5 4 3 3 3	7th Rev. 88	6th Rev. 42 1 1 1 1 1 3	7th Rev. 43 1 1 1 1 1 3	ffective rasitic ases F 6th Rev. 28 3 1 1 1 1	7th Rev. 28 3 1 1 1 1	N 6th	7th Rev.	omiasis F 6th	7th Rev.	26304 25 95 63 62 74 79 130 184 303	1 140-Neopi M 7th Rev. 26293 25 94 63 62 74 79 130 184 303	239 lasms 6th Rev. 23030 244 577 433 43 38 51 81 207	7th Rev. 23025 23 57 43 43 38 52 81 207
65 3 3 7 7 7 6 6 6 2 2 2 4114 4115 3081 3082 70 6 6 6 10 10 4 4 4 3 3 3 4 4089 4088 3336 3334 75 3 3 10 10 3 3 3 3292 3287 3181 3176 80 2 2 3 3 3 1 1 1 1949 1946 2260 2264	Ages at death All ages 0 1 5 10 25 30 35 40	63 5 2 4 2 1 1 1 2 2 3 3 2 8	7th Rev. 63 5 2 4 2 1 1 2 2 3 2	89	7th Rev. 88 -221 1553333334	M 6th Rev. 42 — 1 — 1 1 1 — 3 3	Other in and pa disea 7th Rev. 43	affective rasitic ases	7th Rev. 28 3 1 1 1 1 2	N 6th	7th Rev.	omiasis F 6th	7th Rev.	6th Rev. 26304 255 63 62 74 79 130 184 303 574	1 140-Neop M 7th Rev. 26293 25 94 63 62 74 79 130 184 303 574	23030 24 57 43 38 51 81 207 748	7th Rev. 23025 23025 23 57 43 38 52 81 2007 435 748
80 2 2 3 3 1 1 1949 1946 2260 2264	Ages at death All ages 0	6th Rev. 63 52 4 2 1 1 2 2 3 2 8 7 5	7th Rev. 63 5 2 4 2 2 3 3 2 8 7	89	7th Rev. 888 -221 1 5 3 3 3 3 4 9 8	6th Rev. 42 1 1 1 1 3 3 5 9 2	Other in and pa disea 7th Rev. 43	## A section of the control of the c	7th Rev. 28 3 1 1 1 1 2	N 6th	7th Rev.	omiasis F 6th	7th Rev.	26304 26304 255 63 62 74 79 130 184 303 574 1257 2137 3336	7th Rev. 26293 25 94 63 62 74 79 130 184 303 574 1256 2136 3335	23030 24 57 43 38 51 811 207 748 1302 1780	7th Rev. 23025 23 57 43 43 43 52 81 2007 435 748 1302 1780 2276
85 and over 1 1 3 3 818 819 1263 1262	Ages at death All ages 0 1 5 10 25 30 35 40 45 50 65	6th Rev. 63 5 2 4 2 1 1 1 2 2 3 3 2 8 7 5 4 3	7th Rev. 63 5 2 4 4 2 2 3 3 2 2 8 7 5 5 4 4 3	F 6th Rev. 89 	7th Rev. 888	6th Rev. 42	7th Rev. 43 1 1 1 1 1 1 1 1 1 1 2 2 2 6 6	6th Rev. 28 3 1 1 1 1 2 2 3 4 4 3 4	7th Rev. 28 3 1 1 1 1 2 3 4 4 3 4	N 6th	7th Rev.	omiasis F 6th	7th Rev.	6th Rev. 26304 255 63 62 74 79 130 184 303 574 1257 2137 3336 3723 4114	1 140-Neop M 7th Rev. 26293 25 94 63 62 74 79 130 184 303 574 1256 2136 3335 3723 4115	1 2-239 dasms 6th Rev. 23030 24 577 433 43 38 51 811 2077 435 277 22823 3081	7th Rev. 23025 23 57 43 43 43 52 81 207 435 748 1302 21780 2276 2822 3082

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							N	EOPI	ASM	S						
Causes of death	inc	140- lignant luding r f lymph natopoi	neoplas neoplas atic an	ms d			neoplas l cavity	m		14 Li				Ton		
		Л	1	F	N	1	F		N	1	F	?	N	1	F	,
Ages at death	6th Rev.	7th Rev.	6th Rev.	7th Rev.	6th Rev.	7th Rev.	6th Rev.	7th Rev.	6th Rev.	7th Rev.	6th Rev.	7th Rev.	6th Rev.	7th Rev.	6th Rev.	7th Rev.
All ages	25896	25884	22565	22561	641	622	343	334	41	37	5	5	170	170	88	86
0 1 5 10	12 85 57 55	12 85 56 55	15 50 40 37	15 50 40 37		1 1 1	_ ₁	_1 _	=	=		=	=	=		
15 20	70 74	70 74	32 44	32 45	1 1	1		_	_	_	generality decisions	=	_	_	_	_
25	121 168 293 550	121 168 292 550	71 195 415 712	71 195 415 712			1 2 2 8	1 2 2 8		*=.		_	1	1	$-\frac{1}{3}$	1 3
45 50 55	1213 2088 3279 3689	1211 2087 3278 3689	1256 1735 2218 2773	1256 1736 2217 2772	15 30 46 58	15 27 46 55	16 25 33 40	15 24 33 39	_ _ 2 5	_ 2 4			3 5 11 18	3 4 11 19	6 3 6 5	5 3 6 5
65 70	4081 4058	4082 4057	3027 3287	3028 3284	105 123	102 119	51 45	49 44	3 12	3 10	-	_	26 35	26 35	13 16	13 15
75 80 85 and over	3270 1933 800	3265 1930 802	3157 2249 1252	3152 2253 1251	108 95 43	105 93 42	52 41 26	51 39 26	6 10 3	5 10 3	1 3 1	1 3 1	35 31 5	35 31 5	18 7 10	18 7 10
							1	VEOP:	LASM	S						
Causes of		14	42		1	14	14	NEOP:	LASM	.S	45			1	47	
Causes of death		14 Salivar				Other j				14	45 opharyi	nx			47 pharynx	
death			y gland	ı F	m	Other j	14 parts of h and	d	0:	14	opharyi	nx			pharynx	; F
	6th Rev.	Salivar M	y gland	F 7th	m	Other j mout outh u	parts of h and haspecifie	d	0:	14 ral mes	opharyi		I 6th Rev.	Нурој	pharynx	
death Ages at	6th	Salivar M 7th Rev.	y gland	F 7th	m 6th	Other j mout outh us	parts of h and aspecifie	d 7th	O:	ral mes	opharyi 6th	F 7th	6th	Hypor	pharynx	F 7th
Ages at death	6th Rev.	Salivar M 7th Rev.	of the Rev.	F 7th Rev.	6th Rev.	Other j mout outh us M 7th Rev.	parts of h and happecifie	7th Rev.	O:	ral mes M 7th Rev.	opharyi 6th Rev.	7th Rev.	6th Rev.	Hypor	oharynx 6th Rev.	7th Rev.
Ages at death All ages 0	6th Rev.	Salivar M 7th Rev.	of the Rev.	F 7th Rev.	6th Rev.	Other j mout outh us 7th Rev. 88	parts of h and haspecified H 6th Rev.	7th Rev.	O:	ral mes M 7th Rev.	opharyi 6th Rev.	7th Rev.	6th Rev.	Hypor M 7th Rev. 41	oharynx 6th Rev.	7th Rev.
Ages at death All ages 0 1 5 10	6th Rev.	Salivar M 7th Rev.	of the Rev.	7th Rev. 28	6th Rev.	Other j mout outh us 7th Rev. 88	parts of h and haspecified H 6th Rev.	7th Rev.	O:	ral mes M 7th Rev.	opharyi 6th Rev.	7th Rev.	6th Rev.	Hypor M 7th Rev. 41	70 — — — — — — — — — — — — — — — — — — —	7th Rev. 70
Ages at death	6th Rev.	M 7th Rev. 43	gland 6th Rev.	F 7th Rev. 28	95 — — — — — — — — — — — — — — — — — — —	Other y mout outh us of the Rev. 88	parts of h and haspecified H 6th Rev.	7th Rev.	O:	7th Rev. 73 — — — — — — — — — — — — — — — — — —	opharyi 6th Rev.	7th Rev.	6th Rev. 42 1 1 3 2 2 3 5	7th Rev. 41	70 — — — — — — — — — — — — — — — — — — —	7th Rev. 70
Ages at death	6th Rev.	M 7th Rev. 43	28	7th Rev. 28	95 — — — — — — — — — — — — — — — — — — —	Other j mout outh us of the Rev. 88	parts of h and naspecified the Rev.	dd 77th Rev. 40	76 — — — — — — — — — 1 1 1	7th Rev. 73	opharyi	7th Rev. 27	6th Rev. 42	Hypon M 7th Rev. 41	70 — — — — — — — — — — — — — — — — — — —	7th Rev. 70

							1	NEOPI	LASM	S						
Causes of death	Pha	14 irynx, u	18 inspecif	ied	of	150- llignant digesti and per	neopla	ns '		Oesop				15 Storr		
	N	и]	F	N	Л]		N	Л	I	7	N	Л	1	F
Ages at death	6th Rev.	7th Rev.	6th Rev.	7th Rev.	6th Rev.	7th Rev.	6th Rev.	7th Rev.	6th Rev.	7th Rev.	6th Rev.	7th Rev.	6th Rev.	7th Rev.	6th Rev.	7th Rev.
All ages	105	102	50	49	9969	9911	9210	9151	642	630	469	468	4132	4121	3088	3071
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25 30 35	- 1 - 3	1 4	_ ₁	1 	27 47 83 182	27 46 83 181	10 33 73 148	10 33 72 146		1 5 6	- ₁		8 22 28 78	8 22 28 78	3 12 24 48	3 12 24 47
45 50 55	1 5 6 8	1 3 6 8	2 4 6 7	2 4 6 7	397 666 1071 1246	395 663 1065 1236	274 425 688 1007	269 419 682 1003	32 35 64 62	32 34 62 59	15 26 27 53	15 26 27 54	172 331 494 564	172 329 492 562	78 121 223 312	76 120 222 311
65– 70–	23 21	23 20	5 11	4 11	1569 1732	1562 1721	1283 1601	1272 1588	103 126	102 125	68 72	66 73	677 706	676 704	451 561	448 558
75 80 85 and over	18 10 8	17 10 8	6 5 3	6 5 3	1564 980 392	1557 972 391	1639 1293 724	1627 1296 722	111 67 29	110 65 29	74 86 40	74 85 40	597 328 125	595 327 126	587 434 233	583 434 232

		NEOPLASMS 152 153 154 155														
Causes of		15	52			1:	53	i		1:	54			1:	55	
death			ntestine duodent				ntestine rectum	; *	7	Rec	tum			ary pass ver (sta primai		
Ages at	N	v1	F	7	N	1	1	F	N	1]	F	N	v1	3	F
death	6th Rev.	7th Rev.	6th Rev.	7th Rev.	6th Rev.	7th Rev.	6th Rev.	7th Rev.	6th Rev.	7th Rev.	6th Rev.	7th Rev.	6th Rev.	7th Rev.	6th Rev.	7th Rev.
All ages	48	47	33	34	1954	1945	2727	2713	1600	1584	1229	1221	285	265	427	405
0 1	_		_	_	-				_		-		-1	-1	1	-1
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45 50 55	4 4 10 6	3 4 10 6	2 5 5 7	2 5 5 7	53 113 165 200	52 112 163 200	84 126 216 300	83 127 213 298	61 72 130 194	61 73 130 192	38 62 85 150	39 60 84 150	15 18 32 56	13 18 31 50	16 16 32 51	12 12 29 48
65	5 3	5 3	6	6 2	279 320	280 318	335 436	332 434	255 304	253 299	179 211	179 206	44 49	39 46	61 90	60 88
75 80 85 and over	6 7 —	7 6 —	-2	$-\frac{2}{2}$	376 253 120	374 251 121	493 407 257	491 407 257	278 185 71	275 182 69	199 169 98	199 169 97	41 12 4	38 12 4	78 47 22	76 46 22

							NE	OPLA	SMS							
Causes of		15	6			15	7			15	8			. 1	59	
death	(Liv seconda unspec	ary and			Panc	reas			Perito	neum		Ur	specifie org	d diges	tive
	N	1	F	7	N	1	I	7	N	1	F		N	1	I	3
Ages at death	6th Rev.	7th Rev.	6th Rev.	7th Rev.	6th Rev.	7th Rev.	6th Rev.	7th Rev.	6th Rev.	7th Rev.	6th Rev.	7th Rev.	6th Rev.	7th Rev.	6th Rev.	7th Rev.
All ages	214	229	217	233	992	991	887	883	89	87	119	112	13	12	14	11
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25 30 35 40	_ 	 3 9	- 2 6 3	2 6 5	1 3 6 20	1 3 6 20	2 2 8 19	2 2 8 19	5 1 4 3	5 1 4 3	- 3 1 1	-3 1 1				=
45	7 9 31 26	8 9 32 30	11 10 14 28	13 13 17 29	48 70 125 129	48 70 125 128	18 46 73 93	19 46 72 93	5 13 16 9	6 13 16 9	12 11 11 13	10 9 11 13	- 1 4 -	1 4 		
65 70	32 38	36 40	30 39	30 41	164 175	163 176	129 170	129 168	8 10	7 9	22 18	20 17	2	1 1	2 3	2
75 80 85 and over	25 26 7	28 26 7	37 23 14	39 24 14	121 97 33	121 97 33	151 121 54	145 125 54	6 4 2	6 5 1	14 6 3	14 6 3	3 1 1	3 1 1	$-\frac{4}{1}$	4 1

		NEOPLASMS 162														
Causes of		160-	165			16	0			16	1			1	62	
death		lignant of respi syst		sm	n	niddle e	l caviticar, and			Lar	ynx			and o	and trace of lung as prim	
	N	Л	F	7	N	1	F	3	N	1	I	3	N	Л	F	7
Ages at death	6th Rev.	7th Rev.	6th Rev.	7th Rev.	6th Rev.	7th Rev.	6th Rev.	7th Rev.	6th Rev.	7th Rev.	6th Rev.	7th Rev.	6th Rev.	7th Rev.	6th Rev.	7th Rev.
All ages	9039	9034	1600	1599	55	55	46	47	340	337	85	84	6256	5612	1038	901
0	1	_1				_	=	_	_		_	_	_	_		
5	1	,1				_		_				posterior.		_		_
15 20	1 7	1 7	1 4	1 3		_	-1	-1	- ₁	. —	_	minores. married	1 5		. 1	_1
25 30 35	10 19 92 197	10 19 91 195	6 14 36 46	6 14 36 46		 1 2	1 3	1 3	1 1 4	1 1 3			8 14 74 157	8 10 65 136	4 11 15 34	11 11 31
45 50 55	515 1018 1586 1730	514 1019 1585 1731	94 135 200 236	94 134 199 234	2 2 8 6	2 3 8 6	_4 _2 4	4 2 4	9 23 38 42	9 23 38 42	2 7 9 11	2 7 9 10	380 741 1149 1206	331 658 1011 1079	67 98 144 160	56 86 123 134
65 70	1592 1257	1592 1257	232 238	236 238	8 9	7 10	7 10	, 8 10	54 57	55 56	12 14	12 14	1091 834	998 764	157 142	134 125
75 80 85 and over	658 270 84	657 271 83	197 115 46	197 115 46	6 7 3	6 8 2	9 3 2	9 3 2	60 37 13	58 37 13	11 12 3	11 12 3	396 158 42	360 148 39	110 66 27	101 58 26

Table 2—continued

_	Oittiit	иси														
		NEOPLASMS 163 170–181 170 171														
of		16	3			170-	-181			17	70		17	71	17	72
1		as to w	hether			genito-	urinary			Bre	ast					pus eri
	N	Л	F	7	N	1	1	F	N	1	I	7	1	3	I	F
at 1	6th 7th Rev. Rev. 2349 2991		6th Rev.	7th Rev.	6th Rev.	7th Rev.	6th Rev.	7th Rev.	6th Rev.	7th Rev.	6th Rev.	7th Rev.	6th Rev.	7th Rev.	6th Rev.	7th Rev
	2349	Rev. Rev. Rev. Rev.			3412	3390	8868	8822	26	27	4435	4420	1291	1278	652	65
	-1	_	_		12	<u></u>	1 5	1 5	_	_	_1	_1	=	_	=	_
• •	_1	_1	_	_	4	4	4 2	4 2	_	_	_	_	_	=	=	_
• •	-1	1	=	_2	6 13	6 12	1 8	1 9		_			_ 1	-1	_ ₁	
	1 5	1 9	2	2	10 20	10 20	15 93	15 92	_	_	6 39	6 39	31	30	1	_
••	14 34	23 54	13 7	17 10	28 31	28 31	231 407	231 404	_1	1	118 228	118 227	67 97	67 96	6	
	123 247	172 330	18 24	30 34	69 115	67 115	717 929	713 926	_		387 487	385 487	111 152	111 152	27 48	2' 4' 9' 11:
	388 464	525 592	44 59	63 84	219 344	215 344	1058 1179	1050 1175	2 4	2 4	514 559	512 558	146 179	143 176	90 112	11:
	434 354	527 424	54 67	80 84	506 668	506 664	1142 1093	1137 1084	10 2	11 2	552 518	552 516	151 154	150 149	105 94	10-
··· rer	193 64 25	229 74 28	64 30 12	73 38 13	706 447 213	699 445 213	988 639 356	982 636 355	6 ₁	_6 1	484 330 209	479 328 209	116 56 27	117 56 27	93 56 18	9. 5. 1
	of 1	of L prim At 6th Rev. 2349 1 .	Lung, un as to w primary or M 6th 7th Rev. Rev. 2349 2991	of Lung, unspecific as to whether primary or second M	At Lung, unspecified as to whether primary or secondary M F 6th 7th 6th 7th Rev. Rev. Rev. 2349 2991 395 531 1 1 2 2 1 1 1 2 2 1 1 2 2 1 1 2 2 1 1 2 2 1 1 2 2 1 1 2 2 1 1 2 2 1 1 2 2 1 1 2 2 1 1 2 2 1 1 3 3 13 17 1 3 4 5 4 7 10 1 123 172 18 30 1 247 330 28 38 1 388 525 44 63 1 404 592 59 84 1 434 527 59 84 1 434 527 59 84 1 434 527 54 80 3 354 424 67 84 1 193 229 64 73 1 193 229 64 73 1 64 74 30 38	At Lung, unspecified as to whether primary or secondary M F M 6th 7th 6th 7th Rev. Rev. Rev. Rev. 2349 2991 395 531 3412 1 1 12 1 1 12 1 1 14 1 1 - 2 13 1 1 2 2 10 1 1 1 - 2 13 1 1 2 2 10 1 1 2 2 13 1 1 2 2 10 1 1 2 2 13 1 1 2 2 10 1 1 2 2 13 1 1 2 2 13 1 1 2 2 13 1 1 2 2 2 10 1 1 2 3 13 17 28 1 34 54 7 10 31 1 123 172 18 30 69 1 247 330 24 34 115 388 525 44 63 219 1 388 525 44 63 219 1 464 592 59 84 344 1 434 527 54 80 506 1 354 424 67 84 668 1 193 229 64 73 70	At Lung, unspecified as to whether primary or secondary M F M 6th 7th 6th 7th Rev. Rev. Rev. Rev. Rev. 2349 2991 395 531 3412 3390 1 1 1 2 12 10 1 1 1 2 2 13 12 1 1 1 2 2 13 12 1 1 1 2 2 10 10 1 1 1 2 2 13 12 1 1 2 2 2 10 10 1 1 1 2 2 2 10 10 1 1 1 2 2 2 10 10 1 1 2 2 2 10 10 1 1 2 2 2 10 10 1 1 2 2 2 10 10 1 1 2 2 2 10 10 1 1 2 2 2 10 10 1 1 2 2 2 10 10 1 1 2 2 2 10 10 1 1 2 2 2 10 10 1 1 2 2 2 10 10 1 2 2 2 10 10 1 3 12 1 3 17 2 8 28 3 3 4 54 7 10 31 31 1 223 172 18 30 69 67 2 247 330 24 34 115 115 1 388 525 44 63 219 215 3 464 592 59 84 344 344 4 344 527 54 80 506 506 1 354 424 67 84 668 664 1 193 229 64 73 706 699 1 64 74 30 38 447 445	At Lung, unspecified as to whether primary or secondary M F M Geth 7th 6th 7th Rev. Rev. Rev. Rev. Rev. Rev. Rev. Rev.	NEOPL NEOPL	NEOPLASM: NEOPLASM:	NEOPLASMS NEOPLASMS NEOPLASMS	NEOPLASMS 170-181	NEOPLASMS 170 181 170	NEOPLASMS 170-181 170 173 174 175	NEOPLASMS 170	NEOPLASMS 170 171 170 171 170 171 170 171 170 171 170 171 170 170 171 170

		NEOPLASMS 174 175 176 177 178 179 180														
	17	14					17	77	1	78				1	80	
Causes of death	Ute unspe		tube,	opian , and oad	Other unspe fem gen org	ecified nale nital	Pros	state	Те	stis	unspe m: gen	r and ecified ale nital gans		Kid	dney	
Ages at	F	3	I	F	I	F	N	M	1	M	N	VI.	N	M	I	7
death	6th Rev.	7th Rev.	6th Rev.	7th Rev.	6th Rev.	7th Rev.	6th Rev.	7th Rev.	6th Rev.	7th Rev.	6th Rev.	7th Rev.	6th Rev.	7th Rev.	6th Rev.	7th Rev
All ages	99	97	1443	1438	269	263	1783	1777	96	95	65	66	384	378	216	21
0 1 5	=	Branco Birthire	=		=	=	_ _1	1	_		_		11 4	9	4 3 2	-
10	-		-	-	-	-	-	-	1	1	-	-	-	-	2	3
15 20	=	=	1 2	1 3	=		1	_1	5 10	5 10	=	_	=	=	=	
25 30	=		4 16	4 16	- ₁		-1	1	9 10	9 10	=	_	7 4	7		7.7
35	1	1	42 61	42 60	6	6		_2	16 7	16 7	-1	-,	7	7	3	
45 50 55 60	6 9 9 21	6 9 8 21	158 198 226 207	158 196 226 207	12 10 21 28	10 9 20 28	2 16 50 129	16 48 129	7 4 7 3	7 4 6 3	1 7 3 4	1 7 3 4	26 43 53 67	25 43 53 67	6 10 15 36	1113
65	10	10 13	196 135	195 134	32 42	32 41	260 411	260 411	7 3	7 3	9	10 10	64 45	63 44	29 45	2
75 80 85 and over	14 7 8	14 7 7	109 67 20	108 67 20	47 51 17	46 51 17	461 301 148	458 299 149	5 2 —	5 2 —	13 13 4	13 13 4	33 15 5	33 14 5	34 21 6	3 2

			_													
							N	EOPL	ASM	S						
Causes of		18	1			190-	-199			19	0			1	91	
death		Bladde other u	rinary	-		of othe	neopla er and ied sites		m	Malig elanom	nant a of ski	n	n	Other m	nalignar n of ski	nt in
	N	1	1	3	N	Л	1	7	N	1	F	7	N	Л	F	3
Ages at death	6th Rev.				6th Rev.	7th Rev.	6th Rev.	7th Rev.	6th Rev.	7th Rev.	6th Rev.	7th Rev.	6th Rev.	7th Rev.	6th Rev.	7th Rev.
All ages	1058	1047	440	439	1426	1522	1416	1527	67	64	123	121	178	171	128	121
0 1 5		Ξ	_1	_1	4 20 19 17	4 23 19 17	5 12 16 13	5 12 16 13	_	=	=	_	_ _ _	1 	_	
15 20			_	_	22	22 19	13	13 10	-1	-1	1 3	1 3	_	_		=
25 30 35 40	1 2 6 15	1 2 6 15	<u>-</u>		24 36 42 62	24 37 43 64	8 30 41 53	8 31 42 58	3 4 5 3	3 4 5 3	3 5 9 10	3 5 9 10	1 1 2 2	1 1 2 2	_ _ 1 3	_ _ 1 3
\$5 50 55 50	33 45 104 137	32 45 103 137	8 12 35 34	8 12 34 34	118 138 209 143	121 143 219 156	88 132 127 167	99 144 141 176	7 6 11 4	7 6 11 4	9 14 8 10	9 13 8 10	1 4 14 8	1 2 14 7	4 4 7	-4 3 7
65 70	156 197	155 194	65 90	65 90	158 139	170 157	170 178	186 197	8 4	6 4	9 17	10 15	19 29	20 27	13 14	11 13
75 80 85 and over	188 116 55	184 117 54	91 51 50	91 51 50	120 90 47	133 98 53	173 103 78	187 109 80	5 5 1	4 5 1	10 12 3	10 12 3	32 34 30	32 33 28	30 22 30	27 23 29

Causes of		19	2			19	3			19)4			1	95	
death		Ey	/e				other pa is system		,	Thyroid	d gland				ndocrin nds	e
	N	/I	J	F	N	/I	1	7	N	Л	1	7	N	Л]	3
Ages at death	6th Rev.	ev. Rev. Rev. Rev.			6th Rev.	7th Rev.	6th Rev.	7th Rev.	6th Rev.	7th Rev.	6th Rev.	7th Rev.	6th Rev.	7th Rev.	6th Rev.	7th Rev.
All ages	28	29	22	22	470	471	332	333	44	44	130	129	32	32	23	21
0 1 5	_ _ 1	<u>_</u> 1	1 1 —	1 1 —	2 14 13 7	17 12 7	1 6 13 4	1 6 13 4		=	_	=	1 3 2 1	1 3 3	. 3 3 1	3 3 1
15 20	_1	_2	_	_	10 7	9	5 5	5 5	=			_	=	_	_	_
25 30 35 40			_ _ _ 2	=	10 20 29 30	10 19 29 30	3 11 22 24	3 11 22 24	1 1 1	1 1 1	=	=	 1 1 3	2 3	- 1 1 1	
45	2 2 3 7	2 2 3 7	2 1 2 3	2 1 2 3	66 69 85 49	66 69 85 47	31 60 40 55	31 60 40 55	3 2 6 3	3 2 6 3	2 9 10 19	2 9 10 19	1 8 5 3	1 7 5 3	3 1 2 1	3 1 1 1
65 70	5 2	5 2	2 5	2 5	33 19	35 19	24 19	24 20	13 9	13 9	20 24	19 24	1 1	1	2 2	2 1
75 80 85 and over	-4 1	4 1	1 1 1	1 1 1	5 2	5 2	7 1 1	7 1 1	3 1 1	3 1 1	24 13 8	24 13 8	_1	1	1 1	1 1

Table 2—continued

Table		Ontin	иеи														
								N	EOPI	LASM	S						
Causes			19	96			19	7			19	98			1	99	
deatl	n .		Вс	ne		C	onnecti	ive tissu	ie			nd unsp neoplasi nodes		Otl	her and	unspec tes	ified
Ages	o.t	I	νſ	1	F	N	AI.]	F	' 1	vI.		F	N	v1	1	F
deatl	h	6th Rev.	7th Rev.	6th Rev.	7th Rev.	6th Rev.	7th Rev.	6th Rev.	7th Rev.	6th Rev.	7th Rev.	6th Rev.	7th Rev.	6th Rev.	7th Rev.	6th Rev.	7th Rev.
All ages		166	168	141	141	68	67	46	46	23	26	8	11	350	450	463	582
0	••	annum menum		-1	1				_		= 1	_	_	1_1	_1	:1	
5 10	••	7	7	9	1 9	2 3 2	2 3 2	1	1			_		_		_	=;
15 20	••	8 6	8 6	5 1	. 5 1	2 2	2 2		_		· =	_		1 2	1 2	_2	2
25 30		3 4	3 4	4	- 4	2 4	2 4	1 3	1 3		1	_	· ·	4	3 2	1 6	174
35 40	••	1 8	2 8	3 2	3 2	4	_4	. 3	3 2 3		-	=	_	3 12	4 14	6 3 7	4 12
45 50		7 14	7 14	8 5	. 8	6 3 9 5	6 3 8	3 3	3	1 1	1 2	-3	4	24 29	27 36	27 35	37 47
55	••	19 11	19 11	8 14	8 14	5	8 5	5 9	5 9	3 2	2 3 2	1	1	54 51	65	47	63 58
65 70		19 16	19 17	20 22	19 22	7 8	7 8	<u>_</u> 6	-6	3 5	. 4		_1	50 46	60 65	80 69	98 91
75 80		18 19	18 18	17 12	17 12	4 2 3	4 2	7 2	7 2	3 5	3 5	2 2	, 2	45 22	59 32	74 37	91 42
85 and ov	er	6	7	9	10	3	3	1	1	-	-		-	5	12	25	27

								N	EOPI	LASM	S						
Causes of death	of		200-				20	00		0	20	03			2	04	
				of lympiatopoie				rcoma a sarcoma				myelon cytoma			Leukae aleuk	mia an aemia	d
Ages at		N	M.	1	F	N	1	1	3	ľ	vI ·	1	F	P	И]	F
death		6th Rev.	7th Rev.	6th Rev.	7th Rev.	6th Rev.	7th Rev.	6th Rev.	7th Rev.	6th Rev.	7th Rev.	6th Rev.	7th Rev.	6th Rev.	7th Rev.	6th Rev.	7th Rev.
All ages		1409	1405	1128	1128	258	256	207	205	149	148	174	176	702	701	554	554
0 1 5 10		50 31 36	50 31 36	9 31 19 20	9 31 19 20	2 1 2 6	2 1 2 6	1 3 3 2	1 3 3 2	_ ₁	i i			3 47 26 23	3 47 26 23	8 26 15 16	26 15 16
15 20	::	34 31	34 31	15 17	15 17	8 5	8 5	2	2		_	Manager Control		18 14	18 14	8 9	8
25 30 35 40	::	50 44 45 70	50 44 45 70	31 23 32 50	31 23 32 50	9 6 5 11	9 6 5 11	2 3 1 9	2 3 1 9	_ _ 1 6	_ _ 1 6	_ 2 2	_ _ 2 2	16 20 19 28	16 20 19 28	17 11 19 24	17 11 19 24
45 50 55 60		99 121 148 168	99 120 148 167	67 89 112 144	66 89 112 145	24 32 33 30	24 31 33 30	10 13 17 28	9 12 17 28	11 13 20 32	11 13 20 31	9 15 23 34	9 16 23 35	41 43 59 74	41 43 59 74	34 45 49 61	34 45 49 61
65 70	::	151 139	150 139	149 132	148 133	33 26	32 26	41 29	40 30	28 17	28 17	32 30	32 30	69 82	69 82	53 58	53 58
75 80 85 and over	::	114 51 21	114 51 20	108 58 22	108 58 22	17 5 3	17 5 3	23 9 10	23 9 10	13 4 3	13 4 3	19 6 2	19 6 2	73 34 13	73 34 12	57 35 9	57 35 9

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Causes death	of		204 Lymp leuka	hatic			204 Mye leuka	loid		A	204 cute les	1·3 ikaemia ied type	ı,	Oth	ner and	4·4 unspecaemia	ified
Ages a		N	4	I	3	N	1	I	F ,		л Л	I	7	N	1	1	
death		6th Rev.	7th Rev.	6th Rev.	7th Rev.	6th Rev.	7th Rev.	6th Rev.	7th Rev.	6th Rev.	7th Rev.	6th Rev.	7th Rev.	6th Rev.	7th Rev.	6th Rev.	7th Rev.
All ages		273	170	160	107	313	160	284	170	37	294	43	211	22	20	19	18
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75 80 85 and ove	r	30 22 7	23 21 6	22 17 5	19 14 5	32 8 6	21 6 3	28 14 3	22 12 1	2 1 —	20 4 3	1 2 1	10 7 3	1 1	_1	2 1 —	2 1

						1	NEOP	LASM	S					
Causes of death		210-	-229			21	1			21	12		2	16
deam		Ben				Other p ligestive				Respi syst	ratory		Ov	ary
Ages at	I	Л]	F	ı	vI		F .	. 1	vI.		F		F
death	6th Rev.	7th Rev.	6th Rev.	7th Rev.	6th Rev.	7th Rev.	6th Rev.	7th Rev.	6th Rev.	7th Rev.	6th Rev.	7th Rev.	6th Rev.	7th Rev.
All ages	162	163	285	284	5	6	11	11	7	7	4	3	63	62
0 1 5 10	6 5 1 1	6 4 2 1	8 6 2 5	7 6 2 5	_ ₁	_ 1			2 		1			_
15 20	1 3	1 3	3 6	3 6						-				-1
25 30 35 40	5 9 3 6	5 9 4 6	8 6 11 21	8 6 11 21	=	=	1	1 -			= 1		1 3 5	1 3 5
45 50 55	11 21 15 12	12 21 15 12	27 29 30 30	27 28 29 30	- ₁	$-\frac{1}{1}$	1 1 1	1 1 1	1 -	1 -			1 4 1 7	1 4 1 7
65 70	14 15	14 15	29 32	29 34	_		2 3	2 3			1 1	1	7 13	7 13
75 80 85 and over	9 13 12	9 13 11	15 8 9	15 8 9	2	_2	_1	_1	_1	1			10 3 6	10 3 6

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								1	IEOPI	ASM	S						
Causes			21	19			22	23			22	24			2	25	
death	1			nd othe organs				other p is syste		E	ndocrir	ne gland	is	В	one an	d cartile	age
		N	А	J	3	N	A.]	F	1	M		P	1	VI.		F
Ages a	at 1	6th Rev.	7th Rev.	6th Rev.	7th Rev.	6th Rev.	7th Rev.	6th Rev.	7th Rev.	6th Rev.	7th Rev.	6th Rev.	7th Rev.	6th Rev.	7th Rev.	6th Rev.	7th Rev.
All ages		43	42	17	17	66	66	95	96	19	20	23	25	5	5	3	1
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35 40	• •	_				2 4	2 4	3 5	3 5	-	1	1 3	3	1	1	_	_
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55		3	1 3	4	1 4	6	6	10	10	1	1	4	4			1	
65 70		4 5	4 5	4	-4	7 6	7 6	9	9 5	_2	_2	2 2	2 3	_1	1	_	=
75 80 85 and ov	er	4 11 10	4 11 9	3 3 1	3 3 1	_1	1	1	1	2 1	2 1		-	_1	1		

							NE	OPLA	SMS							
Causes of		22	27			22	29			23	37			2	39	
death		Muscul onnecti	lar and ve tissu	е	Oth or	er and gans ar	unspeci nd tissu	fied es	brai	in and	d nature other pa as system	arts		of oth	ied naturer and ed orga	
	I	M	I	3	ı	M]	F	N	1	1	F	P	AI.)	F
Ages at death	6th Rev.	7th Rev.	6th Rev.	7th Rev.	6th Rev.	7th Rev.	6th Rev.	7th Rev.	6th Rev.	7th Rev.	6th Rev.	7th Rev.	6th Rev.	7th Rev.	6th Rev.	7th Rev.
All ages	2	3	3	4	2	. 1	6	5	211	211	153	152	8	8	8	9
0			_1	_1	-	entered and a second	_3	3	4 4	4 4	.1	1	_2	2	_	
5		- 1				Minima arrange			5	5	1	1	_		=	
15 20		_	direction in	-	_				3 2	3 2	3	3	=,		_	_
25 30	_				-			_	4 6 7	4	2 6	2		_	-	_
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45		2		State State		terantisti manazati		0-000	33 28	33 28	18 12	18 12			-1	-1
55 60 -			_1.	1		-	1	Name of Street, or other transfer, or other transfe	39 21	39 21	27 18	27 18			_2	3
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Table 2—	conti	ıued						!								
Causes of death	syst	Il 240- llergic, l em, Me tritiona	-289 Endocri tabolic,	and	A		-245 disorde	rs			41 hma			Dise	0-254 eases of id gland	1
		M .		F	l		Į	F			Ι ,					-
Ages at death	6th	7th	6th	7th	6th	7th	6th	7th	6th	7th	6th	7th	6th	7th	6th	F 7th
	Rev.	Rev.	Rev.	Rev.	Rev.	Rev.	Rev.	Rev.	Rev.	Rev.	Rev.	Rev.	Rev.	Rev.	Rev.	
All ages		1,086	2,214		533	359	592	443	529	355	589	440	46	45	298	298
0	19 5 11 3	18 4 11 3	10 13 8 11	11 13 8 10	2 2 4 2	1 1 4 2	7 3 4	7 3 3	2 2 3 2	1 1 3 2	7 3 4	7 3 3	- -		1	-1
15 20	5 18	5 17	16 28	15 27	3 8	3 7	8 16	7 16	3 8	3 7	8 16	7 16	_		i	_1
25	18 16 28 39	18 14 27 36	24 23 40 44	22 22 35 41	6 6 13 25	6 4 12 22	10 10 24 24	8 9 19 20	5 6 13 25	5 4 12 22	9 10 23 24	7 9 18 20	2 1 1 2	2 1 1 2	2 2 2 9	2 2 2 9
45	67 92 123 162	56 72 101 134	82 121 159 257	72 116 147 235	36 58 63 85	24 37 41 58	46 56 66 80	36 50 52 58	35 58 63 85	23 37 41 58	46 56 66 80	36 50 52 58	2 3 6 8	2 3 6 8	10 24 38	4 10 24 38
65 70	199 160	168 136	376 388	351 357	77 66	47 42	75 71	48 43	76 66	46 42	74 71	47 43	8 7	7 7	63 53	63
75 80 85 and over	164 100 31	146 92 28	324 199 91	303 196 86	53 18 6	35 10 3	54 23 15	34 20 10	53 18 6	35 10 3	54 23 15	34 20 10	3	3	46 30 13	46 30 13
Causes of death	Thu	25	52	h an		25				25				2	60	
V-100-00-00-00-00-00-00-00-00-00-00-00-00	Tily	withou			IV.	creti	ema and nism	.1		nyroid a	seases of	1	D	Diabete:	s mellit	us
Ages at																
		M		F	N	1	F	₹	N	1	F	,	N	1	I	
death	6th Rev.	7th Rev.	6th Rev.	7th Rev.	6th Rev.	7th Rev.	6th Rev.	7th Rev.	6th Rev.	7th Rev.	6th Rev.	7th Rev.	6th Rev.	7th Rev.	6th Rev.	7th Rev.
All ages	6th	7th	6th	7th	6th	7th	6th	7th	6th	7th	6th	7th	6th	7th	6th	7th Rev.
death	6th Rev.	7th Rev.	6th Rev.	7th Rev.	6th Rev.	7th Rev.	6th Rev.	7th Rev.	6th Rev.	7th Rev.	6th Rev.	7th Rev.	6th Rev.	7th Rev.	6th Rev.	7th Rev.
All ages	6th Rev.	7th Rev.	6th Rev.	7th Rev.	6th Rev.	7th Rev.	6th Rev. 125	7th Rev.	6th Rev.	7th Rev.	6th Rev.	7th Rev.	6th Rev. 520	7th Rev. 519	6th Rev. 1,099	7th Rev. 1,096
All ages	6th Rev.	7th Rev.	6th Rev.	7th Rev.	6th Rev.	7th Rev.	6th Rev. 125	7th Rev.	6th Rev.	7th Rev.	6th Rev.	7th Rev.	6th Rev. 520 1 1 7 7 7 7	7th Rev. 519 1 - 1 - 7 7 7	1,099 - 2 3 6 5 10 6 4	7th Rev. 1,096
death O	30 — — — — — — — — — — — — — — — — — — —	7th Rev.	6th Rev. 151	7th Rev. 151 —	6th Rev.	7th Rev. 11 1	125 — 1 — 1 — 1 — 1 — 1	7th Rev. 126	6th Rev.	7th Rev.	6th Rev.	7th Rev.	6th Rev. 520 1 1 7 7 8 7 120 31	7th Rev. 519 1	6th Rev. 1,099 	7th Rev. 1,096 -2 3 6 5 10 6 4 11 2 21 38 45
death O	30	7th Rev.	6th Rev. 151	7th Rev. 151	6th Rev.	7th Rev. 11 1	6th Rev. 125	7th Rev.	6th Rev.	7th Rev.	6th Rev.	7th Rev.	6th Rev. 520 1 -1 7 7 7 7 8 7 17 20	7th Rev. 519 1 1 7 7 7 7 8 7 18 20	6th Rev. 1,099 ———————————————————————————————————	7th Rev. 1,096

Table 2—continued

Course		270-	-277			27	71			27	2			2	74	
Causes of death	othe	Diseas r endoc	ses of crine gla	nds	pa	Disea rathyro	ses of oid glan	d ·	1	Disea pituitar	ses of y gland		e* 111		ises of l glands	
	N	Л	F	7	N	1 :	,	3	N	v1	J	F	N	1	I	3
Ages at death	6th Rev.	7th Rev.	6th Rev.	7th Rev.	6th Rev.	7th Rev.	6th Rev.	7th Rev.	6th Rev.	7th Rev.	6th Rev.	7th Rev.	6th Rev.	7th Rev.	6th Rev.	7th Rev.
All ages	61	63	84	86	1	1	5	6	23	25	39	39	24	24	26	27
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45 50 55	6 4 7 7	6 5 8 7	6 8 9 14	6 9 10 14	, — ₁	_1 	- 1	_ _ 2 1	5 1 2 3	5 2 3 3	4 5 4 9	4 6 4 9	1 1 2 3	1 1 2 3	1 2 2	
65	12	12	9 7	10 7		_	1	_1	7	7	2 5	2 5	2 2	2 2	4 2	5 2
75 80 85 and over	1 1 —	1 1	3 2	3			_1	_1	=	-	_1	1	1 1	1 1	1 1	1
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Causes of death			oses an			and nut	36 taminos ritional cy states		Obe as o	28 esity no	37 of specification or	ied igin		Other n	89 netaboli	c
death	C	vitamin	oses an		d	her avi	taminos ritional cy states		Obe as o	esity no	ot specif	ied igin	N	Other n dise	netaboli	
	C	vitamin other me disea	oses an etabolic ases		d	her avi	taminos ritional cy states	····	as o	esity no	ot specif	igin 		Other n dise	netaboli eases	
death Ages at	N 6th	vitamin other me dises	oses an etabolic ases	7th	A di	her avi	taminos ritional cy states	7th	as o	esity no of endoo	ot specification or spe	igin	N 6th	Other m dise	netaboli eases I	7th
Ages at death	M 6th Rev.	vitamin other me disea	oses an etabolic ases	7th Rev.	M 6th Rev.	her aviind nut efficience	taminos ritional cy states	7th Rev.	as o	of endoor	ot specification or spe	7th Rev.	6th Rev.	Other n disc	etabolicases H 6th Rev.	7th Rev.
Ages at death All ages 0	6th Rev.	vitamin other me dises	oses an etabolic ases I 6th Rev.	7th Rev.	M 6th Rev.	her aviind nut efficience	taminos ritional cy states	7th Rev.	as o	of endoor	ot specification or spe	7th Rev.	6th Rev. 38	Other m disc	enetabolicases I 6th Rev. 30	7th Rev.
Ages at death All ages 0	6th Rev.	vitamin other me diser	formation of the second of the	7th Rev. 144 2 2 1 —	M 6th Rev.	her aviind nut efficience	taminos ritional cy states	7th Rev.	as o	of endoor	ot specification or spe	7th Rev.	38 4 2 4	7th Rev. 38 4 2 4 -	enetabolicases I 6th Rev. 30	7th Rev. 33 2 1 1
Ages at death All ages	100 4 3 4 3 1	vitamin other me dises	foses an etabolicases I 6th Rev. 141 1 2 1 - 1 1	7th Rev. 144 2 2 1 1	19 — 1 — 1 — 1 — 1	7th Rev.	aminos ritional y states of the Rev.	7th Rev. 36 ——————————————————————————————————	35	7th Rev.	67	7th Rev.	38 4 2 4 - 2 1 - 3	7th Rev. 38 4 2 4 - 2 1 - 3	6th Rev. 30 1 1 1 1 1	7th Rev. 33 2 1 1 1 1 3
Ages at death All ages 0 1 5 15 20 25 30 45 55	6th Rev. 100 4 3 4 - - 3 11 15 3 66 76	7th Rev. 100 4 3 4 - 3 11 15 5 3	141	7th Rev. 144 2 2 1 1 1 2 6 2 4	19 — 1 — 1 — 1 — 2 — 2	her avii	aminos ritional cy states 6th Rev. 35 1 2 61	7th Rev. 36 1 1 2 7 1	35 —	7th Rev.	ot specification of the specif	7th Rev. 666 — — — — — — — — — — — — — — — — —	38 4 2 4 - - 2 1 - 3	7th Rev. 38 4 2 4 - 1 31	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	7th Rev. 33 2 1 1 1 1 2

Table 2—continued

Table 2	contu	шеа														
Causes of death	Dis and B	290-	V -299 f the Bl rming o	ood organs	Per hype	niciou	90 s and on	her mias	Pe		0·0 as anaer	nia	Iron (hyr	deficie	291 ency an nic ana	aemias .emias)
	N	A		F	1	M	1	F	1	M		F		M		F
Ages at death	6th Rev.	7th Rev.	6th Rev.	7th Rev.	6th Rev.	7th Rev.	6th Rev.	7th Rev.	6th Rev.	7th Rev.	6th Rev.	7th Rev.	6th Rev.	7th Rev.	6th Rev.	7th
All ages	367	376	674	678	126	126	320	318	103	103	288	286	39	40	92	91
0 1 5 10	9 4 4 7	9 4 4 7	4 2 2 4	4 2 2 6	=	manufacture of the second	_	_	=			_		Strange Strange Manage Strange	-	Commence Com
15 20	7 3	7. 3	1 3	1 3	=	_			_			-	-1	-1	_	Process Process
25 30 35 40	7 3 4 4	7 3 6 4	5 6 9 13	5 6 10 13	=	1	= 1	_ ₁			=1	1	-	Company Schools Schools Schools	1 1 1 1	. 1 1 1
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65 70	39 51	41 52	69 105	70 104	12 26	12 26	32 49	32 48	10 22	10 22	29 45	29 44	3 5	3 5	10 16	10 16
75 80 85 and over	63 53 33	64 53 33	139 120 80	139 120 80	31 24 20	31 24 20	82 73 51	82 73 50	26 18 18	26 18 18	73 65 46	73 65 45	7 11 9	7 11 9	16 23 12	16 23 12
											1				1	
Causes of death	u		onia of	e	j	29 Polycyt)4 haemia		Pu haem	29 Irpura a orrhagi	of and other condi	er tions	D	2 Diseases	98 of sple	een
		Anaer inspecif	nia of ied type			Polycyt	haemia		haem	rpura a orrhagi	and other	tions		iseases	of sple	
	N 6th	Anaer inspecif	nia of ied type	F 7th	M 6th	Polycyt I 7th	haemia I 6th	7th	haem N 6th	rpura a orrhagi 1	and other condi	tions 7th	- N	Diseases	of sple	F 7th
Ages at death	6th Rev.	Anaer Inspecif	nia of ied type	7th Rev.	6th Rev.	Polycyt 1 7th Rev.	haemia	7th Rev.	M 6th Rev.	orrhagi 7th Rev.	and other condi	7th Rev.	6th Rev.	Oiseases 1 7th Rev.	of sple	7th Rev.
Ages at death All ages	6th Rev.	Anaerinspecif	nia of ied type	F 7th	M 6th	Polycyt I 7th	haemia I 6th	7th	haem N 6th Rev.	Th Rev.	and other condi	tions 7th	- N	Diseases	of sple	F 7th
Ages at death All ages	6th Rev.	Anaer Inspecif	fied type	7th Rev.	6th Rev.	Polycyt 7th Rev.	haemia	7th Rev.	M 6th Rev.	orrhagi 7th Rev.	and other condi	7th Rev.	6th Rev.	Oiseases 1 7th Rev.	of sple	7th Rev.
Ages at death All ages 0	6th Rev. 28	Anaerinspecif	fied type	7th Rev.	6th Rev.	Polycyt Tth Rev. 17	haemia	7th Rev.	Months and the second s	The Rev.	and other condi	7th Rev.	6th Rev.	7th Rev.	of sple	7th Rev.
Ages at death All ages O 1 5 20 25 35 40	6th Rev. 28	Anaerinspecif	fied type	7th Rev. 63	17 —	Polycyt 7th Rev. 17	haemia	7th Rev.	Months and the second s	The Rev.	H 6th Rev. 40	7th Rev. 39	131	7th Rev.	of sple	7th Rev.
Ages at death All ages 0 5 15 20 30	6th Rev. 28	Anaerinspecif	6th Rev. 60 1 1 3	7th Rev. 63 1	17 —	7th Rev.	haemia	7th Rev.	1 1 2	7th Rev. 32 4 2 1 - 1 - 1 2	6th Rev. 40 1 1 2 1 1	7th Rev. 39 — 1 1 1 2 1 1 1	6th Rev. 13	7th Rev. 20 1 1 3	6th Rev.	7th Rev. 19 3 1
Ages at death All ages 0 1 20 25 30 35 45	28 — 1 — 1 — — — — — — — — — — — — — — —	Anaerinspecif	60 1 2 1	7th Rev. 63 1	17	7th Rev. 17 17 17 18 18 19 19 19 19 19 19 19 19	haemia I 6th Rev. 17 1	7th Rev. 18 — — — — — — — — — — — — — — — — — —	1 1 2 1	7th Rev. 32 4 2 - 1 1 2 1	40 — 1 1 2 2 1 1 4	7th Rev. 39 — 1 1 1 2 1 1 4	13 1 1 1 1 1 1 1 1	7th Rev. 20 1 1 1 3 1	of sple	7th Rev. 19

Causes of death	Other and	diseas blood orga	es of blo	od }	Ment and Po	300– al, Psy ersonali		otic rders		300-		-	N	/Ianic-d	01 epressi- ction	ve
Ages at	М		F		M	I I	F	7	N	И	1	F	N	1	1	7
death	6th Rev.	7th Rev.	6th Rev.	7th Rev.	6th Rev.	7th Rev.	6th Rev.	7th Rev.	6th Rev.	7th Rev.	6th Rev.	7th Rev.	6th Rev.	7th Rev.	6th Rev.	7th Rev.
All ages	5	5	8	7	171	171	297	296	121	119	249	248	3	3	16	15
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15		_	grange grange		4 3	4 3		2	1 1	1		1	_	=	-	_
25	=		=		6 2 6 2	6 2 6 2	3 1 6 3	3 1 6 3	1 2 3 1	1 2 3 1	_ 4 1	_ 4 1			_ _ _	_ _1
45	1 	_1	1 1	- 1 - 1	9 7 5 13	9 8 5 13	7 11 25 21	7 11 24 21	5 5 3 11	5 5 3 11	4 9 20 19	4 9 19 19	1 1 -	1 1 -1	1 2 4 3	1 2 3 3
65 70	_1	_1	_2	_2	12 20	12 20	22 39	22 39	10 17	10 16	19 36	19 36	_	=	3	3 1
75 80 85 and over		=	1 2 1	1 1 1	22 23 17	22 22 17	49 37 52	48 37 53	22 22 17	22 21 17	49 36 51	48 36 52	_	=	_ ₁	_ _1 _
													<u>'</u>			
Causes of death	s		04 psychosis	5	Dis	eases o behavio	-326 f charac our, and igence	cter,		32 Alcoh		,			2·1	
death			psychosis	s		eases o behavio	f character, and igence	cter,			olism	F		Chi	ronic	Tr.
		Senile	psychosis			eases o behavio intell	f character, and igence	1	M 6th Rev.	Alcoh	olism	7th Rev.	6th Rev.	Chi	ronic	7th Rev.
death	6th	Senile	osychosis 6th Rev.	F 7th	6th	eases o behavio intell	f character, and igence	F 7th	6th	Alcoh	olism 6th	7th	6th	Chi	onic l	7th
Ages at death	6th Rev.	Senile M 7th Rev.	osychosis 6th Rev.	7th Rev.	6th Rev.	eases o behavio intell	f character, and gence 6th Rev.	F 7th Rev.	6th Rev.	Alcoh 7th Rev.	6th Rev.	7th Rev.	6th Rev.	Chi A 7th Rev.	6th Rev.	7th Rev.
Ages at death All ages 0 5	6th Rev.	Senile M 7th Rev.	osychosis 6th Rev.	7th Rev.	6th Rev.	obehavidintelli	6th Rev.	7th Rev.	6th Rev.	Alcoh 7th Rev.	6th Rev.	7th Rev.	6th Rev.	Chi A 7th Rev.	6th Rev.	7th Rev.
Ages at death O	6th Rev.	Senile M 7th Rev.	osychosis 6th Rev.	7th Rev.	6th Rev. 40 7 8 5	7th Rev.	6th Rev.	7th Rev.	6th Rev.	Alcoh 7th Rev.	6th Rev.	7th Rev.	6th Rev.	Chi A 7th Rev.	6th Rev.	7th Rev.
Ages at death O	6th Rev.	Senile M 7th Rev.	for the second s	7th Rev. 168	6th Rev. 40 7 8 5 - 3 2 4 - 3 - 4	7th Rev. 42 7 8 5 3 2 4	f character of the first of the	7th Rev. 33 9 6 3 1 -	6th Rev.	Alcoh 7th Rev.	6th Rev.	7th Rev.	6th Rev.	7th Rev.	6th Rev.	7th Rev.
Ages at death All ages 0 1 5 10 25 20 25 40 45	6th Rev.	Senile M 7th Rev.	168	7th Rev.	6th Rev. 40 7 8 5 - 3 2 4 - 3 - 4	7th Rev. 42 78 5 3 2	6th Rev. 33 9 63 11 2 3	7th Rev. 33 9 63 1 2 1 2 3	6th Rev. 7	Alcoh 7th Rev. 9	6th Rev.	7th Rev. 5	6th Rev.	Chu 7th Rev. 7	fonic fonic	7th Rev. 3

Table 2	contin	иеи														
Causes of death	Nei	V 330- Diseaseryous S	398 s of the ystem a		8	Vascula iffecting	-334 r lesion g centra	1		33 Subara haemo	chnoid			Cer	31 ebral	
		Sense (Jrgans													
Ages at	N	1 .	1	F	ľ	VI.		F	N	vI		F	1	νī]]	F
death	6th Rev.	7th Rev.	6th Rev.	7th Rev.	6th Rev.	7th Rev.	6th Rev.	7th Rev.	6th Rev.	7th Rev.	6th Rev.	7th Rev.	6th Rev.	7th Rev.	6th Rev.	7th Rev.
All ages	16366	16215	22606	22416	14993	14847	21140	20945	583	576	927	918	5861	5769	8444	8371
0	82 53 24 37	86 54 25 38	57 40 24 25	61 41 24 25	6 3 2 7	6 3 2 7	5 2 3 6	5 2 3 6	4 1 1 6	3 1 1 6	2 -2 5	2 2 5		1 2 1	-1 1 1	
15 20	35 36	35 35	29 26	29 24	6 11	6	4 9	4 7	5 8	5	2. 4	2 4	1 3	1 3	1 5	.1
25 80 85	43 67 111 161	43 62 106 152	38 71 110 183	38 68 107 181	16 27 60 112	16 23 55 104	17 31 59 141	16 29 56 134	12 20 39 40	12 19 38 39	13 19 33 54	13 18 32 54	4 6 18 63	4 3 14 56	2 8 20 69	1 7 19 63
55 55 55	324 587 981 1438	308 559 956 1418	361 673 1004 1517	342 650 981 1504	246 491 876 1305	232 463 853 1288	292 585 892 1384	274 562 868 1371	62 67 102 62	62 66 101 61	90 111 113 107	88 109 111 107	135 315 485 707	125 292 473 696	153 369 535 777	141 351 521 773
65 70	2219 2889	2193 2892	2517 3804	2498 3782	2078 2714	2055 2714	2350 3622	2334 3600	70 36	70 36	122 104	122 102	910 1062	899 1060	1145 1529	1141 1526
75 80 85 and over	3233 2555 1491	3209 2552 1492	4669 4215 3238	4636 4202 3223	3096 2474 1463	3072 2472 1465	4478 4084 3176	4443 4071 3160	29 14 5	29 14 5	84 44 18	85 44 18	1014 740 394	1006 739 393	1653 1322 852	1647 1321 852
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		3:	32			33	34			340-	-345			3	40	
Causes of death		3. erebral and thre	emboli		a	ner and ascular	ill-defin lesions centra system		di	340- Inflami seases of nervous	natory of centr			feningi mening	40 tis, exce	Ī
death	-	erebral	emboli ombosi		a 1	ner and ascular	ill-defin lesions centra system		dis	Inflami seases o	matory of centr system			feningi mening	tis, exce	is
	-	erebral and thr	emboli ombosi		a 1	ner and vascular offecting nervous	ill-defin lesions centra system		dis	Inflamr seases o nervous	matory of centr system			feninging mening and tub	tis, exce gococca erculou	is
death Ages at	6th	erebral and three	emboli ombosi 6th Rev.	F 7th	a i	ner and vascular offecting nervous	ill-defir lesions centra system	7th	dis r	Inflamr seases of nervous	natory of centr system	F 7th	N 6th	feninging mening and tub	tis, excesococca erculou	of th
Ages at death	6th Rev.	orebral and throad	emboli ombosi 6th Rev.	F 7th Rev.	6th Rev.	ner and vascular affecting hervous 7th Rev.	ill-define lesions central system	7th Rev.	die 1	Inflamma seases concrevous 1 Tth Rev.	matory of centr system 6th Rev.	7th Rev.	6th Rev.	Meningiand tub	tis, excessococca erculou	7th Rev.
Ages at death All ages 0 5	6th Rev.	7th Rev.	emboli ombosi 6th Rev.	F 7th Rev. 10139	6th Rev.	ner and vascular affecting hervous 7th Rev.	ill-define lesions central system	7th Rev.	6th Rev. 377 61 25 5	Inflammaseases concrevous 7th Rev. 360 60 26	natory of centr system 6th Rev. 409 38 20 8	7th Rev. 406 38 20 8	6th Rev. 120 49 10	feningi mening and tub A 7th Rev.	tis, excessococca erculous 6th Rev. 74 25 11	7th Rev. 72 24 11 1
Ages at death All ages 0 1 10 15 20 35 36	6th Rev.	7th Rev.	6th Rev.	F 7th Rev. 10139 1 2 —	6th Rev.	ner and vascular affecting hervous 7th Rev.	ill-define lesions central system	7th Rev.	6th Rev. 377 61 25 5 6	7th Rev. 360 60 26 5 7 7	10 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	7th Rev. 406 38 20 8 5	6th Rev. 120 49 10	A 7th Rev. 102 48 10 1 2 2	6th Rev. 74 25 11 1 3	7th Rev. 72 24 11 1 1 3
Ages at death All ages 0 1 15 20 35	7304 2 	7th Rev. 7237	6th Rev. 10256 1 2 1 2 2 5 5	F 7th Rev. 10139 1 2 — 1 — 2 2 4	6th Rev.	7th Rev.	ill-defir lesions central system 6th Rev. 1513	7th Rev. 1517	6th Rev. 377 61 25 5 6 7 4 10 15 24	7th Rev. 360 60 26 5 7 7 10 14 24	10 6th Rev. 409 38 5 5 6 6 11 19 31	7th Rev. 406 38 20 8 5 6 11 18 31	6th Rev. 120 49 10 1 1 2 2 3 1	7th Rev. 102 48 10 1 2 2 1 3	6th Rev. 74 25 11 1 1 2 2 1	7th Rev. 72 24 11 1 3 1 2
Ages at death All ages 0 1 5 10 25 10 25 10 25 10 15	7304 2	7th Rev. 7237 2 - 1 2 8 42 944 251	10256 1 2 2 2 2 5 15 14 1 977 228	F 7th Rev. 10139 1 2 1 2 2 4 14 38 94 1453	1244 — — — — — — — — — — — — — — — — — —	7th Rev.	ill-defir lesions central system 6th Rev. 1513	7th Rev. 1517	377 61 25 5 6 7 4 10 15 24 27 37 38	7th Rev. 360 60 26 5 7 7 3 10 14 24 26 36 36 36 36 36	11 6th Rev. 409 38 20 8 5 5 6 6 111 19 31 29 46 53 41	7th Rev. 406 38 20 8 5 5 6 11 18 31 29 45 53 41	120 49 10 11 1 2 2 3 11 2 5	7th Rev. 102 48 10 1 2 1 3 -2 4 5 2 5	6th Rev. 74 25 11 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	7th Rev. 72 24 11 1 2 - 2 1 1 1 3
Ages at death All ages 1 5 15 20 25 10 55 15	7304 2	7th Rev. 7237 2	6th Rev. 10256 1 2 2 2 2 5 15 41 97 2288 461 983	F 7th Rev. 10139 1 2 1 2 2 4 14 38 94 221	1244 — — — — — — — — 1 1 1 3 3 122 5 57 7 124	ner and rascular ffecting neer vous 7th Rev. 1264	1 6th Rev. 1513	7th Rev. 1517	6th Rev. 377 61 25 5 6 7 4 10 15 24 27 37 38 36 36 30 21	A 7th Rev. 360 60 26 5 7 7 3 10 114 24 26 36 36 36 34 27 18	11 6th Rev. 409 38 8 5 5 6 6 11 19 31 129 46 53 34 1 34 34 34 34 34	7th Rev. 406 38 20 8 5 6 11 18 31 29 45 53 41 34 33	6th Rev. 120 49 10 1 1 2 2 3 1 2 2 9 9	7th Rev. 102 48 10 1 2 2 1 3 3 - 2 4 5 5 2 5 6 3	74	7th Rev. 72 24 11 1 2 2 1 1 1 3 6 6

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		340	·1			340) · 3			34	1 3			3	44	
Causes of death	Pn	ieumo	coccus	,	U	nspecifi	ed caus	se	and	enceph	is, myel alomye e infect	litis		acrania	ffects of all absce c infecti	ss or
	М	-	F		N	1	. 1	F	N	A .	1	F	. 1	M ;		F
Ages at death		7th Rev.	6th Rev.	7th Rev.	6th Rev.	7th Rev.	6th Rev.	7th Rev.	6th Rev.	7th Rev.	6th Rev.	7th Rev.	6th Rev.	7th Rev.	6th Rev.	7th Rev.
All ages	63	44	35	34	25	26	15	14	46	46	37	-36	16	17	24	24
0 1 5 10	17 2 —	16 2	$-\frac{6}{7}$	6 7 —	10 4 —	10 4 — 2	1 1	3 1 1	3 9 3 2	3 10 3 2	4 4 3 4	4 4 3 4	5 3	5 3 - 2	9 4 2	10 4 2
15 20	-1	- 1	1.	1	2	2	_2.	_2	2	2	-1	_1	_1	£ _1	1	7
25 30 35 40	2 1 1 4	2	1 1	1	1 1	1 1	_ _ 2 1	_ _ _ 1	2 2 2 3	2 2 2 3	2 2 5	2 2 4	-1 -1			1 2
45 50 55	3 2 9 7	2 2 5 4	1 2 5	1 2 5	3 -	$\frac{3}{-1}$	= 1	- - - 1	3 3 2 4	3 2 2 4	2 2 1 3	2 2 1 3	2		2 1 —	
65 70	6	3	4 3	4 3	-1	-1	1 1	1 1	1 3	1 3	3	3	-	$\frac{1}{2}$	-1	4
75 80 85 and over	2 1	_1	1	1 1			_1	_1	<u>-</u>	=	_1	1		=	=	7
													1			
		350-	357	. 1		35	50			35	51			3	52	Ī
Causes of death		ther di	iseases		. s. P		60 s agitan	S		Cerebra	51 I spastic paralys			Other	52 cerebra	1
death		ther di	iseases ntral		.a.P	aralysis	agitan	s	in	Cerebra	l spastic paralys			Other	cerebra alysis	ı
	M 6th	ther di	iseases atral system			aralysis	agitan		in	Cerebra fantile	l spastic paralys	is 	6th Rev.	Other	cerebra alysis	8
Ages at	M 6th	ther doncervous	iseases ntral system F	7th	6th	aralysis	agitan	7th	in N 6th	Cerebra fantile	l spastic paralys	F 7th	6th	Other para	cerebra alysis	7th
Ages at death	M 6th Rev. I	ther do of cer revous	iseases ntral system F 6th Rev.	7th Rev.	6th Rev.	aralysis 7th Rev.	agitan 6th Rev.	7th Rev.	in 6th Rev.	Cerebral fantile 7th Rev.	l spastic paralys 6th Rev.	7th Rev.	6th Rev.	Other para	cerebra alysis 6th Rev.	7th Rev.
Ages at death All ages 0	M 6th Rev. 1 919 4 21 16	7th Rev.	iseases ntral system 6th Rev. 994 5 18	7th Rev. 1000	6th Rev.	aralysis 7th Rev.	agitan 6th Rev.	7th Rev.	66th Rev. 25	Cerebra fantile A 7th Rev. 30 7 7 4	1 spastic paralys 6th Rev. 26	7th Rev. 27	6th Rev.	Other para	cerebra alysis 6th Rev.	7th Rev.
Ages at death All ages 0 5 10	M 6th Rev. 1 919 4 21 16 24 20	7th Rev. 932 10 21 17 24 20	iseases stral system 6th Rev. 994 518 12 12	7th Rev. 1000 9 19 12 12	6th Rev.	aralysis 7th Rev.	agitan 6th Rev.	7th Rev.	6th Rev. 25 1 7 4 1 2	7th Rev.	1 spastic paralys 6th Rev. 26 8 4 1	7th Rev. 27 4 8 4 1 1	6th Rev.	Other para	cerebra alysis 6th Rev.	7th Rev. 172
Ages at death All ages 0	M 6th Rev. 1 919 4 21 16 24 20 19 16 22 23	7th Rev. 932 10 21 17 24 20 19 16 22 23	seases titral system 6th Rev. 994 518 12 12 19 8 916 17	7th Rev. 1000 9 19 12 12 12 19 8	354	7th Rev.	agitan 6th Rev.	7th Rev.	6th Rev. 25 1 7 4 1 2	7th Rev.	1 spastic paralys 6th Rev. 26	7th Rev. 27 4 8 4 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	6th Rev.	Other para	cerebra alysis 6th Rev.	7th Rev. 172
Ages at death All ages 0	919 4 21 16 24 20 19 16 22 31 19 36 51 57	10 21 17 24 20 19 35 53 57 57	seases ntral system 6th Rev. 994 518 12 12 19 8 916 167 16 222 33 699	7th Rev. 1000 919 12 12 12 19 8 10 16 17 16 22 33 69	354 	1 7th Rev. 356 — 7 122 — 7 121 13	6th Rev. 446 — — — — — — — — — — — — — — — — — —	7th Rev. 445	6th Rev. 25 1 7 4 1 1 2 1 1 2 1 1 2 2	7th Rev. 30 77 44 1 1 1 1 1 1	1 spastic paralys 6th Rev. 26	7th Rev. 27 48 41 11 11 21	6th Rev.	Other part	6th Rev. 169 — — — — — — — — — — — — — — — — — — —	7th Rev.

Table 2—c	contin	ued														
Causes of death		35 Epile			Mot- and	35 or neur muscul	one disc	ease ohy	m	356 Progreuscular		у		Other	57 diseases	
	N	Л		F	N	л	F	7	N	N.		7	N	AI :		F
Ages at death	6th Rev.	7th Rev.	6th Rev.	7th Rev.	6th Rev.	7th Rev.	6th Rev.	7th Rev.	6th Rev.	7th Rev.	6th Rev.	7th Rev.	6th Rev.	7th Rev.	6th Rev.	7th Rev.
All ages	211	212	158	160	147	147	122	123	94	94	81	82	16	17	16	16
0 1 5 10	14 11 18	14 12 18	1 10 5 9	1 11 5 9	2 	2 	= 2 = 1	2 - 1	1 2	1 2		=	=		=	=
15 20	15 17	15 17	17 7	17 7	1	1	_	_	1 1	1	=	_	1	_1		
25 30 35 40	14 18 16 11	14 18 16 11	7 14 11 8	8 14 11 8	1 2 3 5	1 2 3 5		- 1 1 2	1 1 3 4	1 1 3 4	- ₁	- ₁	2 2 1		_ _ 1 2	_ 1 2
45 50 55	16 10 13 15	16 10 13 15	11 13 13 11	11 13 13 11	7 18 22 25	7 18 22 24	4 8 24 24	4 8 25 24	4 10 13 13	10 13 12	2 6 13 17	2 6 14 17	- 1 1 2		_ 2 4	_ _ 2 4
65 70	10	10 4	4 8	4 8	19 20	19 21	20 17	20 17	14 13	14 14	16 13	16 13	4	4	4 2	4 2
75 80 85 and over	5 2 2	5 2 2	4 4	4 4 1	10 6 3	10 6 3	13 5	13 5	6 4 3	6 4 3	8 4	8 4	_ _1	_1	1	_1
Causes of death		and per		es	Oth	30 er and rms of	unspeci neuralg euritis	fied ia		380-	-389 diseases	eye		3 Refract	80	ors
Causes of		iseases and per	of nervipheral	es	Oth	30 er and rms of	unspeci neuralg euritis	fied	and	380-	diseases ions of				ive erro	ors F
Causes of		iseases and per gan	of nervipheral	es	Oth	er and rms of and n	unspeci neuralg euritis	fied ia	and	380- Other condit	diseases ions of	eye		Refract	ive erro	
Causes of death Ages at death All ages	N 6th	iseases and per gan	of nervipheral	es F	Oth fo	ar and rms of and n	unspeci neuralg euritis	fied ia	and 6th	380- Other of condit	diseases ions of	eye F	6th	Refract M 7th	ive erro	F 7th
Causes of death Ages at death	6th Rev.	iseases and per gan 7th Rev.	of nervipheral	F 7th Rev.	Oth fo	ar and rms of and n	unspeci neuralg euritis	fied ia 7th Rev.	and 6th Rev.	380-Other of condition	diseases ions of 6th Rev.	F 7th Rev.	6th	Refract M 7th	ive erro	F 7th Rev.
Ages at death All ages 0	6th Rev.	iseases and per gan 7th Rev.	of nervipheral	F 7th Rev.	Oth fo	ar and rms of and n	unspeci neuralg euritis	7th Rev.	and 6th Rev.	380-Other of condition	diseases ions of 6th Rev.	F 7th Rev. 15	6th	M 7th Rev.	ive erro	F 7th Rev.
Ages at death All ages 0 1 5 10 20 25 30 35	6th Rev.	iseases and per gan 7th Rev.	of nervipheral glia 6th Rev.	F 7th Rev.	Oth fo	ar and rms of and n	unspeci neuralg curitis	7th Rev.	and 6th Rev.	380-Other of condition	diseases ions of 6th Rev.	F 7th Rev. 15	6th	M 7th Rev.	ive erro	7th Rev.
Ages at death All ages 0 15 20 30	14 —	7th Rev.	-369 of nervipheral gita 6th Rev. 14 1 1 2	F 7th Rev. 15 — 1 — 1 — 2 2 2	Oth fo	3(rand n 7th Rev.	unspeci neuralg curitis	7th Rev.	and 6th Rev.	380-Other of condition	diseases ions of 6th Rev.	F 7th Rev. 15	6th Rev.	7th Rev.	6th Rev.	7th Rev.
Ages at death All ages 0 1 5 10 20 25 30 35	14 — 1 — 1 — 1 — — — — — — — — — — — — —	7th Rev.	-369 of nervipheral glia 6th Rev. 14	7th Rev. 15	Oth fo	36 er and rms of and n 7th Rev.	unspeci neuralg euritis	7th Rev.	and 6th Rev.	380-Other of condition	fiseases ions of 6th Rev.	7th Rev.	6th	M 7th Rev.	ive erro	7th Rev.

Table 2—continued

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Causes of		390-	-398			39	91			35	92				VII 0-468	
death			of ear an process				ia with mastoi		0		edia wit	th .		Disea	ses of the	
	N	1	F	7	N	И	1	F	I	M		F		M		F
Ages at death	6th Rev.	7th Rev.	6th Rev.	7th Rev.	6th Rev.	7th Rev.	6th Rev.	7th Rev.	6th Rev.	7th Rev.	6th Rev.	7th Rev.	6th Rev.	7th Rev.	6th Rev.	7th Rev.
All ages	54	53	35	35	38	37	27	28	3	3	2	1	47797	47975	46017	46086
0	11 4 1 —	10 4 1	9 -1 2	9 1 2	11 4 1 —	10 4 1	-8 -1 2				1	1 	5 7 7 14	7 7 7 14	5 5 4 8	5 4 6
15	1 2	1 2	1 2	1 2	_ ₁	_ ₁	1	1	_	*****			28 52	28 59	32 44	34 50
25	 2 4 3	2 4 3	1 3 1 1	1 3 1 1	2 1 1			- 3 1 1	= 1		1	_	85 165 346 679	88 168 355 692	74 111 214 326	76 116 219 334
45	4 6 8 2	4 6 8 2	_ 1 3	_ _ 1 3	1 5 7 1	1 5 7 1	_ _ 1 2	_ _ 1 2	i 	_ ₁			1362 2511 3899 4817	1380 2554 3943 4856	558 938 1536 2800	579 966 1565 2821
65 70	3	3 1	_3	_3	1	_1	2	_2	-1	-1	_	_	6658 7917	6694 7930	4599 7358	4625 7411
75		_2	3 1 3	3 1 3			2 1 2	2 1 2			=		8102 6666 4477	8128 6639 4426	9323 9245 8810	9335 9215 8720
DO MILO OTOX																
		400-	-402			40	00			46	01			40	1.0	
Causes of death	R		-402	r		matic f	oo ever wi of hear		Rhe	eumatic	01 : fever v	vith nt	. F	Active r	1·0 heumat	ic
Causes of death			atic feve	r	n	matic f	ever wi of hear ement		he	eumatic	fever v	vith nt	A	Active r peric	heumat	
Causes of		theuma	atic feve		n	matic f nention involv	ever wi of hear ement	·t	he	eumatic eart inv	fever v	nt ———		Active r peric	heumat arditis	
Causes of death	N 6th	theuma 1 7th	itic feve	7th	n 6th	matic f nention involv	ever wi of hear ement	F 7th	he A	eumatic eart inv M	fever volvement	F 7th	N 6th	Active r peric	heumat arditis	7th
Causes of death Ages at death	6th Rev.	Tth Rev.	l 6th Rev.	7th Rev.	n 6th	matic frention involv	ever wi of hear ement	7th Rev.	A 6th Rev.	eumatic eart inv M 7th Rev.	6th Rev.	F 7th Rev.	6th Rev.	Active r peric	heumat arditis	7th Rev.
Ages at death All ages 0	6th Rev.	7th Rev.	6th Rev.	7th Rev. 40	n 6th	matic frention involv	ever wi of hear ement	7th Rev.	6th Rev.	M 7th Rev. 2 1	6th Rev.	7th Rev. 32 1 1	6th Rev.	Active r peric	heumat arditis	7th Rev.
Ages at death All ages 0 1 5 15	39 — 2 2 4	7th Rev. 39 2 2 4	1 6th Rev.	7th Rev. 40 1	n 6th	matic frention involv	ever wi of hear ement	7th Rev.	6th Rev. 35	M 7th Rev. 2 1 3	6th Rev.	7th Rev. 32 1 1 2 4	6th Rev.	Active r peric	heumat arditis	7th Rev.
Ages at death All ages 1 10 15 20 25 30 35	39 — 2 2 4 — 2 6 — 6	7th Rev. 39 2 2 4	1 6th Rev. 39 1 1 5 5 3 4	7th Rev. 40 1	n 6th	matic frention involv	ever wi of hear ement	7th Rev.	35 — 2 2 3 3 — 2 5 — 2	7th Rev. 34 2 1 3 2 4 2	6th Rev. 32 1 5 5 3	7th Rev. 32 1 1 2 4 5	6th Rev.	Active r peric	heumat arditis	7th Rev.
Ages at death All ages 0 1 5 20 25 40 45 55	39 — 2 2 4 — 2 6 — 2 3 1	7th Rev. 39 2 2 4 2 3 1	1 6th Rev. 39 1 1 5 5 5 3 4 4 4 1 4	7th Rev. 40 1 2 45 3 41 4	n 6th	matic frention involv	ever wi of hear ement	7th Rev.	35 - 2 2 3 - 2 5 - 2 2 2	7th Rev. 34 -2 1 3 -2 4 -2 2 1 3 4	6th Rev. 32 1 5 5 3	7th Rev. 32 1 -1 2 4 5 34 1 1	11	Active r peric	heumat arditis	7th Rev. 6

able 2																
Causes of death	A	401 ctive rh endoca	eumati	c	A	401 ctive rh myoca	eumatic		m	vith oth ultiple	matic fe	1		402 ithout n	nention	
	N	Л	1	F	N	1	F		N	1	F	,	N	1	F	7
Ages at death	6th Rev.	7th Rev.	6th Rev.	7th Rev.	6th Rev.	7th Rev.	6th Rev.	7th Rev.	6th Rev.	7th Rev.	6th Rev.	7th Rev.	6th Rev.	7th Rev.	6th Rev.	7th Rev.
All ages	6	6	8	9	_	-	4	3	18	17	16	14	3	4	7	5
0 1 5	=	=	=		_	_	_	_		2 1 2	-1 -1	-1 -1	_ _ _ 1	_ _ _		=
15 20	_ ₁	₁	2 2	2 2			1	_ 1	_ 1	-1	3 2	2 2		_	_	
25 30 35 40	$-\frac{2}{1}$	1 1			_		1	1	-3 -1 2	- 1 2	 4 1 4		1 	1 1	=	=
45 50 55 60	_ _ _	2		=			1 1	1	1 1 - 2	1 - 2		=	 1 	_1 _	$-\frac{2}{2}$	
65 70	_	_			_		_	_	_1	_1		_	=	_	_	
75 80 85 and over	=	_	=	=	_			=	=	=		_	=	_		
Causes of death	,	With	2·1		CI		-416 rheumat disease	ic		Disea mitral	ses of		I	Diseases valve s	of aor	
		With	heart	F		aronic i	rheumat disease	ic	, and the second	Disea	ses of valve	F		Diseases valve s	of aori	
		With involv	heart	F 7th Rev.		nronic i	rheumat disease		6th Rev.	Disea mitral	ses of valve	7th Rev.		Diseases valve s as rhe	of aori	
death	6th	With involv	heart vement	7th	6th	heart of	rheumat disease	7th	6th	Disea mitral	ses of valve	7th	6th	Diseases valve s as rhe	of aorespecified	F 7th
Ages at death	6th Rev.	With involv	heart vement	7th Rev.	6th Rev.	M 7th Rev.	theumat disease	7th Rev.	6th Rev.	Disea mitral	ses of valve 6th Rev.	7th Rev.	6th Rev.	Diseases valve s as rhe	of aorispecified cumatic	7th Rev.
Ages at death All ages 0 1	6th Rev.	With involved M Rev.	heart vement	7th Rev.	16th Rev.	M 7th Rev.	frheumat disease	7th Rev. 2641	6th Rev. 978	Disea mitral 7th Rev. 993	ses of valve 6th Rev. 1971	7th Rev. 1982	6th Rev.	Oiseases valve s as rhe 7th Rev.	of aorispecified cumatic	7th Rev.
Ages at death All ages 0 5 10 15 20 25	6th Rev.	With involved M Rev.	heart vement	7th Rev.	1490 ————————————————————————————————————	7th Rev. 1504 — 7	cheumat disease 1 6th Rev. 2630 - 3 10	7th Rev. 2641	978 ————————————————————————————————————	Disea mitral 7th Rev. 993 4 10	6th Rev. 1971 — 2 8	7th Rev. 1982	6th Rev. 170	Oiseases valve s as rhe M 7th Rev. 170	of aorispecified cumatic	7th Rev.
Ages at death All ages 0 1 10 15 20 30 31	6th Rev.	With involved M Rev.	heart vement	7th Rev.	1490 — 7 17 26 33 54 83	7th Rev. 1504 — 7 26 33 54 83	theumatdisease 1	7th Rev. 2641 2 11 23 500 72 136	6th Rev. 978 4 10 14 18 33 60	Disea mitral 7th Rev. 993	ses of valve 6th Rev. 1971 2 8 19 37 55 515	7th Rev. 1982	170 ————————————————————————————————————	7th Rev. 170 — 1 3 4 4 9 9 6	of aori	7th Rev.
Ages at death	1 6th Rev. 1	With involv	heart vement	7th Rev. 2	1490 	7th Rev. 1504	2630 — 3 10 23 50 72 1366 180 244 270 3300	7th Rev. 2641 2 11 23 50 72 136 178 246 268 302	6th Rev. 978 	Disea mitral 7th Rev. 993	1971 — 2 8 19 37 55 115 1428 2044	7th Rev. 1982	170 	7th Rev. 170 1 3 4 4 9 6 6 13 23 28 19	of aori pecifico de matic	7th Rev. 93

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420-422

Other myocardisis specified as rheumatic Other myocardisis specified as rheumatic Other myocardisis specified as rheumatic Other myocardisis specified as rheumatic Other heart disease Arteriosclerotic heart death Ages at death Geh 7th 6th 7th 7th 7th 7th 7th 7th 7th 7th 7th 7			41	4	_		41	5			41	6			420	422	
Ages at death Gith 7th Gith 7th Gith 7th Rev. R	Causes of death					Ot spec	her my ified as	ocardit rheum	is atic					Aı	degen	erative	and
Geath Gith 7th Gith Gith 7th Gith Gith 7th Gith Gith 7th Gith Gith 7th Gith Gith Gith 7th Gith	N	1	1	3	N	A .	1	F	N	Л	1	F	N	VI.)	F	
Decision									7th Rev.								
Section Sect	All ages	107	106	170	169	41	43	71	75	192	190	319	317	35987	35664	31291	30638
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55	30 35	5	5		8 4	_ 1 2	1 1 2	1 1 1 3	1 1 1 4	10	6 10	5 13	5 13	180	77 183	8 17 29 70	8 17 29 69
The content of the	50	8	8 11	16 21	16 21	8 3	8	3	3 6	24	24 34	32	39	1961 3056	1967 3057	818	805
Ages at death Gith 7th Rev. Rev. Rev. Rev. Rev. Rev. Rev. Rev.				25 14	25 15			15 12	15 14								
Arteriosclerotic heart disease, including coronary disease Arteriosclerotic heart disease, including coronary disease Arteriosclerotic heart disease so described Heart disease specified as involving coronary arteries	80	7 3 1	3	6	6	3 2 —	3 2 —	7	7	4	4	20	20	4951	4866	6642	6495
Arteriosclerotic heart disease, including coronary disease Arteriosclerotic heart disease, so described Heart disease specified as involving coronary arteries Angina pectoris without mention of coronary disease																	
Ages at death Arteriosclerotic heart disease so described Arteriosclerotic heart disease so described Arteriosclerotic heart disease so described Angina pectoris without mention of coronary disease		l .												1			
Ages at death 6th 7th Rev.			42	20			420	0.0			420	D·1			42	0.2	
death 6th 7th Rev. Rev. 6th 7th Rev. Rev. Rev. Rev. Rev. Rev. Rev. Rev.		d	erioscle isease, i	rotic he	g		erioscle	rotic he			rt disea	se spec		1	Angina without	pector.	n
0	death	di c	erioscle isease, i oronary	rotic he including diseas	e	dis	erioscle ease so	rotic he	ed	as in	rt disea nvolvin arte	se spec g coror eries	nary	of	Angina without corona	pector mentionary dise	on ase
1 <td< td=""><td>death Ages at</td><td>di c</td><td>erioscle isease, i oronary M</td><td>erotic he ncludin diseas</td><td>e F</td><td>dis</td><td>erioscle ease so</td><td>rotic he describ</td><td>F 7th</td><td>as in</td><td>rt disea nvolvin arte</td><td>se spec g coror eries</td><td>F 7th</td><td>of M</td><td>Angina without corons M</td><td>pector mentionary dise</td><td>ase 7th</td></td<>	death Ages at	di c	erioscle isease, i oronary M	erotic he ncludin diseas	e F	dis	erioscle ease so	rotic he describ	F 7th	as in	rt disea nvolvin arte	se spec g coror eries	F 7th	of M	Angina without corons M	pector mentionary dise	ase 7th
10	Ages at death	6th Rev.	erioscle isease, i oronary M 7th Rev.	erotic he ncluding diseas	F 7th Rev.	6th Rev.	erioscle ease so M 7th Rev.	erotic he describ	7th Rev.	as in	rt disea nvolvin arte	se spec g coror eries 6th Rev.	F 7th Rev.	of M	Angina without corons M 7th Rev.	pector menticary dise	7th Rev.
20 3 3 1 1 3 3 1 1 <td< td=""><td>Ages at death All ages 01</td><td>6th Rev.</td><td>erioscle isease, i oronary M 7th Rev.</td><td>erotic he including diseas</td><td>7th Rev.</td><td>6th Rev.</td><td>erioscle ease so M 7th Rev.</td><td>erotic he describ</td><td>7th Rev.</td><td>as in</td><td>rt disea nvolvin arte</td><td>se spec g coror eries 6th Rev.</td><td>F 7th Rev.</td><td>of M</td><td>Angina without corons M 7th Rev.</td><td>pector menticary dise</td><td>7th Rev.</td></td<>	Ages at death All ages 01	6th Rev.	erioscle isease, i oronary M 7th Rev.	erotic he including diseas	7th Rev.	6th Rev.	erioscle ease so M 7th Rev.	erotic he describ	7th Rev.	as in	rt disea nvolvin arte	se spec g coror eries 6th Rev.	F 7th Rev.	of M	Angina without corons M 7th Rev.	pector menticary dise	7th Rev.
30 66 66 66 13 12	Ages at death All ages 0 1 5 10	6th Rev.	erioscle isease, i oronary M 7th Rev.	erotic he including diseas	7th Rev.	6th Rev.	erioscle ease so M 7th Rev.	erotic he describ	7th Rev.	as in	rt disea nvolvin arte	se spec g coror eries 6th Rev.	F 7th Rev.	of M	Angina without corons M 7th Rev.	pector menticary dise	7th Rev.
50 1825 1833 319 327 3 3 1 1815 1822 317 326 7 8 1 1 55 2754 2770 662 665 5 4 1 1 2739 2756 657 660 10 10 4 4 65 4079 4124 2212 2235 25 24 15 15 4030 4077 2185 2209 24 23 12 11 70 4100 4158 3081 3139 35 34 31 30 4027 4086 3028 3087 38 38 22 22 75 3502 3552 3105 3161 47 47 44 43 3435 3485 3028 3087 20 20 33 31 80 2021 2084 2175 2258 44 46 48 45 1967 2028 2110 2198 10 10 17 15	Ages at death All ages 0 1 15	6th Rev. 24122	rioscle isease, i oronary 7th Rev. 24423	6th Rev.	7th Rev.	6th Rev.	erioscle ease so M 7th Rev.	erotic he describ	7th Rev.	6th Rev.	rt diseanvolvin arte 7th Rev. 24095	See spec g coror prices	7th Rev. 14443	of M	Angina without corons M 7th Rev.	pector menticary dise	7th Rev.
75 3502 3552 3105 3161 47 47 44 43 3435 3485 3028 3087 20 20 33 31 80 2021 2084 2175 2258 44 46 48 45 1967 2028 2110 2198 10 10 17 15	Ages at death All ages 0 1 5 10 20 25 30	6th Rev. 24122 — 1 3 18 66 66 6166	7th Rev. 24423	errotic he including disease of the Rev.	7th Rev. 14732 1 - 1	6th Rev.	erioscle ease so M 7th Rev.	erotic he describ	7th Rev.	23790	7th Rev. 24095	6th Rev. 14130 1 — 1 - 1 3 13 13 21 55	7th Rev. 14443 1	of M	Angina without corons 7th Rev.	pector menticary dise	7th Rev.
80 2021 2084 2175 2258 44 46 48 45 1967 2028 2110 2198 10 10 17 15	Ages at death All ages 0 5 15 20 25 35 40 45 55	6th Rev. 24122 —————————————————————————————————	24423 7th Rev. 24423 1 3 18 666 169 429 954 1833 2770	6th Rev. 14434 1 1 3 13 21 55 140 319 6622	7th Rev. 14732 1 3 122 21 54 144 3267	6th Rev. 194	7th Rev. 193 ——————————————————————————————————	6th Rev.	7th Rev. 189	6th Rev. 23790 1 3 18 666 427 944 1815 2739	7th Rev. 24095	6th Rev. 14130 1	7th Rev. 14443 1	6th Rev. 138	Angina without corona 7th Rev. 135	feth Rev.	7th Rev.
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Table 2—continued

Table 2—c	onunu	ieu						, ,				1				
Causes of death		421 onic end not spe as rheu	docardi	tis		421 mitral specific	valve,		7 1	421 · f aortic not spe as rheu	valve,		of	421 pulmon not spe as rhei	ary valv	ve,
			F		M		F		M		F		N	1	F	
Ages at death	6th Rev.	7th Rev.	6th Rev.	7th Rev.	6th	7th Rev.	6th Rev.	7th Rev.	6th Rev.	7th Rev.	6th Rev.	7th Rev.	6th Rev.	7th Rev.	6th Rev.	7th Rev.
All ages	856	882	781	811	42	45	81	93	657	669	449	457	1	3	2	1
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25 30 35	4 9 6 20	4 9 6 20	1 1 5 4	1 2 5 4			=	_	3 8 5 18	3 8 5 18	1 1 3 2	1 2 3 2	1 	1		-
45 50 55	29 51 95 113	31 54 98 118	15 35 31 79	16 38 33 82	_ - 1	1 1 1 2	= = 2	_ _ 2 3	24 39 80 96	24 40 81 100	6 23 19 53	7 25 19 54	=	_ ₁		
65	141 129	143	113 148	115 158	11 10	10	14 18	16 24	109 94	110 98	70 81	68 84	_	_	2	1_
75 80 85 and over	124 76 51	. 130 76 53	147 115 87	150 120 87	10 7 2	11 8 2	15 19 13	16 20 12	85 50 40	87 50 40	88 53 49	87 56 49	=	=	_	_
Causes of death	Oth	421 ner and	ill-defi	ned,	0	42	22 yocardi	al	F	422		on	w		22·1	osis
	Oth	ner and	ill-defi	ned,	. 0	ther m		al	Fa	422		on	W			osis
death	1	ner and	ill-defination	ned, s		ther m	yocardi eration	al F		atty deg	enerati	F		ith arte	rioscler	F
	1	ner and not spec rheur	ill-defination	F 7th		ther my	yocardi eration	F 7th		atty deg	enerati			ith arte	rioscler	
death Ages at	6th	mer and not spec rheur	ill-definctified a	F 7th	6th	of Rev.	yocardi eration 6th	7th Rev.	6th	M 7th	enerati	F 7th	6th	ith arte	erioscler	F 7th
Ages at death All ages 0 5	6th Rev.	M 7th Rev.	ill-definition and ill-defined a matic	F 7th Rev.	6th Rev.	of Rev.	yocardi eration 6th Rev.	7th Rev.	6th Rev.	M 7th Rev.	6th Rev.	F 7th Rev.	6th Rev.	M 7th Rev.	6th Rev.	7th Rev.
Ages at death All ages 0	6th Rev.	M 7th Rev.	ill-definition and ill-defined a matic	F 7th Rev.	6th Rev.	7th Rev.	yocardieration 6th Rev. 16076	7th Rev. 15095	6th Rev.	M 7th Rev.	6th Rev.	F 7th Rev.	6th Rev.	M 7th Rev.	6th Rev.	7th Rev.
Ages at death All ages 0 5 15	156 HRev. 156 HRev. 156 HR 156	7th Rev. 165	6th Rev.	F 7th Rev. 260	6th Rev. 11009	7th Rev.	yocardieration 6th Rev. 16076 — 1	7th Rev. 15095	6th Rev.	M 7th Rev.	6th Rev.	F 7th Rev.	6th Rev.	7th Rev. 4588	6602	7th Rev. 6467
Ages at death All ages 0 1 5 20 25 35 35 35 35 35 35 35 35 35 35	156 th Rev. 156	7th Rev. 165	Control Cont	F 7th Rev. 260	11009 	7th Rev. 10359	16076	7th Rev. 15095	6th Rev.	7th Rev. 41 ———————————————————————————————————	6th Rev.	7th Rev. 74 ———————————————————————————————————	6th Rev. 4678	7th Rev. 4588	6th Rev.	7th Rev. 6467
Ages at death All ages 0 5 10 25 30 35 40	156	M 7th Rev. 165 — 1 1 1 2 2 6 6 1 16 6 16 6 2 23	6th Rev. 249 — — — 2 2 2 2 2 2 2 2 2 2 2 2 2	F 7th Rev. 260	11009 	ther middegeneral degeneral 16076	7th Rev. 15095	1 6th Rev. 44 — — — — — — — — — — — — — — — — — —	7th Rev. 41 — 1 — 1 — 1 3 5 5 5	78 — 1 — 2 2 5 9	7th Rev. 74	6th Rev. 4678	7th Rev. 4588 1 2 6 623 588 129	6602	7th Rev. 6467	

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430-434

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Causes of					l		454			-40					31	-
death		Other deluded t	liseases inder 4	22		Other do			Ac	ute and endoca		ate		ate myo		
	Ī	Л	I	3	N	Л	1	3	N	1	1	F	P	vI]	F
Ages at death	6th Rev.	7th Rev.	6th Rev.	7th Rev.	6th Rev.	7th Rev.	6th Rev.	7th Rev.	6th Rev.	7th Rev.	6th Rev.	7th Rev.	6th Rev.	7th Rev.	6th Rev.	7th Rev.
All ages	6287	5730	9396	8554	2466	2917	2609	3387	99	98	74	74	27	26	32 .	33
0 1 5 10	- ₁	1 1	_ _ _	1	4 2 3 1	4 2 3 1	1 5 1 1	1 5 1 2	1 1	1 1	_ _ _	_ _1	_ _ _	_ ₁	1 -	1 2
15 20	2 2	2 2	1	2	2 6	2 7	11 7	11 7	- ₁	-1	5 3	5 3	_	_		_ ₁
25	5 2 6 11	5 2 6 10	4 1 3 11	4 2 3 11	5 12 19 29	6 12 17 32	5 6 19 22	5 7 18 23	3 5 7 14	3 5 7 14	2 3 4 4	2 3 3 4	 1 -	- 1 -	_ _ 2 2	_ _ 2 2
45 50 55 60	21 59 142 219	20 54 126 186	15 52 86 179	13 46 68 159	69 89 190 222	65 88 206 250	29 58 111 185	31 58 132 196	14 10 12 7	13 10 11 7	7 8 13 4	7 8 13 4	2 4 2 1	2 3 3 1	3 3 2 5	4 3 2 5
65 70	484 932	422 835	433 1047	367 934	359 417	413 492	253 464	328 579	11 11	11 12	5 3	5 3	4 3	4 2	1 2	1 2
75 80 85 and over	1372 1606 1422	1256 1484 1318	1824 2502 3236	1634 2309 3000	435 356 246	567 445 305	525 511 395	749 679 555	1 1	1 1	7 4 1	7 4 2	4	_4 _4	2 2 4	2 2 4
		43	33			43	34			440-	443			4	40	
Causes of death	Fı		al diseas	se	Oth d	er and	unspeci of hear	fied t		Hypert heart o	ensive		h	Essentia yperten	al benig	n art
death		ınctiona	al diseas	se F	d	er and	unspeci of hear	fied t	N	Hypert heart o	ensive lisease	F	h	Essentia yperten	al benig sive hea ease	n art
		nctions of h	al diseas		d	er and iseases	unspeci of hear	t	6th Rev.	Hypert heart o	ensive lisease	F 7th Rev.	h	Essentia yperten dis	al benig sive hea ease	art
Ages at death All ages	6th Rev.	7th Rev.	al disease eart	7th	d 6th	er and iseases	unspeci of hear	t 7th	6th	Hypert heart of	ensive lisease	7th	h 6th	Essentia yperten dis	al benig sive her ease	7th
Ages at death All ages 01	6th Rev.	of h	al disease eart	7th Rev.	6th Rev.	er and iseases 7th Rev.	of hear	7th Rev.	6th Rev.	Hypert heart of	ensive lisease	7th Rev.	6th Rev.	Essentia yperten dis M 7th Rev.	al benig sive her ease	7th Rev.
Ages at death All ages 0 1 5 10	6th Rev. 486	7th Rev.	al disease eart 1 6th Rev. 767	7th Rev.	6th Rev.	or and iseases 7th Rev. 1759	of hear 6th Rev. 1730 1	7th Rev. 1639 — 1 — 2	6th Rev. 2664	Hypert heart of the Rev.	ensive lisease	7th Rev.	6th Rev.	Essentia yperten dis M 7th Rev.	al benig sive her ease	7th Rev.
Ages at death All ages 0 5 10 15	6th Rev.	7th Rev.	al disease eart 1 6th Rev. 767	7th Rev.	6th Rev.	er and iseases 7th Rev.	of hear 6th Rev. 1730	7th Rev. 1639	6th Rev.	Hypert heart of	ensive lisease	7th Rev.	6th Rev.	Essentia yperten dis M 7th Rev.	al benig sive her ease	7th Rev.
Ages at death All ages 0 5 15 20 25 30 40	6th Rev. 486	7th Rev.	1 6th Rev. 767	7th Rev. 1635	1847 -1 -3 -1	7th Rev. 1759	of hear 6th Rev. 1730 1	7th Rev. 1639 — 1 — 2	6th Rev. 2664	Hypert heart of the Rev.	ensive lisease	7th Rev.	6th Rev.	Essentia yperten dis M 7th Rev.	al benig sive her ease	7th Rev.
Ages at death All ages 0 5 10 20 35 35	1 6th Rev. 486 1 1 - 1 3	7th Rev. 1027 1 - 1 - 1 3	1 disease eart	7th Rev. 163511	6th Rev. 1847 1 - 3 - 1 5 2 2 5 8	7th Rev. 1759 1 3 5 6	1730 — 1 — 5 2 2 13	7th Rev. 1639	6th Rev. 2664	7th Rev. 2708 1 1 2 1 1 2 1 5	6th Rev.	7th Rev. 3499 — — — — — — — — 1 2	6th Rev.	Essentia yperten dis M 7th Rev.	al benig sive her ease	7th Rev.
Ages at death All ages 0	16th Rev. 486 1 — 1 3 5 5 13 13 13 13 13 13 13 13 13 13 13 13 13	7th Rev. 1027 1	767	7th Rev. 1635	1847 1847 1 - 3 - 1 5 5 8 10 40 662 143	7th Rev. 1759 1 3 - 16 35 6 12 37 60 148	1730 — 1 — 1 5 2 2 13 14 14 28 63 63	7th Rev. 1639 1 2 5 2 3 3 13 15 13 255 68	6th Rev. 2664 ——————————————————————————————————	7th Rev. 2708 — 1 1 2 15 18 39 955 181	6th Rev. 3375	7th Rev. 3499 — — — — — — — — — — — — — — — — — —	53	Essentiagy year tended and the second	al benigsive herease	7th Rev. 88

Table 2-C	Ontini	ieu														
Causes of death	i	44 ential n hyperte heart d	naligna ensive	nt	disea		ive hear			r and unhypertenders disconnected	nspecif	ied	0	ther hy	-447 pertensi	ve
	M	[F		M	1	F		M	[F	,	N	1	F	3
Ages at death	6th Rev.	7th Rev.	6th Rev.	7th Rev.	6th Rev.	7th Rev.	6th Rev.	7th Rev.	6th Rev.	7th Rev.	6th Rev.	7th Rev.	6th Rev.	7th Rev.	6th Rev.	7th Rev.
All ages	43	51	36	40	57	54	63	61	2511	2553	3187	3310	1647	1720	1887	1873
0 1 5 10		=					=	_		_		=		=	=_2	
15 20	_			_		=	_	=	_1	_1	=		1 5	1 12	1 1	2 7
25 30 35 40	1 -4 2	1 4 2	_ 2 1	_ _ 1			_ _ _ 2		2 12 16	- 11 16	- ₁	-1 -8	12 23 39	5 15 32 51	1 11 11 14	2 5 16 25
45 50 55	2 12 9 6	3 14 10 8	3 5 5 4	3 5 6 4	 1 6	_ _ 1 6	1 1 1 3	 1 1 3	34 81 164 249	33 81 166 254	18 49 102 229	19 53 110 237	46 88 155 168	65 125 174 177	29 51 85 128	42 71 99 124
65	2 2	3 2	5 6	6 7	10 7	9	5 4	5 4	410 527	423 538	388 663	406 686	249 264	250 242	220 324	210 301
75 80 85 and over	3	4	1 4	2 4	9 15 9	8 13 10	18 20 9	17 19 9	478 392 145	480 401 147	743 613 373	780 626 384	282 197 116	274 185 112	425 339 256	395 329 245
Causes of death	I	44 Essentia hypert		n	Es		45 maligna ension	nt		yperten olar ne			C	ther hy	47 pertens	ive
		Essentia	l benig	n F		sential	maligna		arteri	yperten	sion wi			ther hy	pertens	ive F
		Essentia hypert	l benig			sential hypert	maligna ension		arteri	yperten olar ne	sion wi	erosis		M 7th	pertens	
death Ages at	6th	Essentia hypert M 7th	l benig ension	F 7th	l	sential hypert M	maligna ension	7th	arteri	yperten olar ne M	sion wiphroscl	F 7th	6th	M 7th	pertens isease	F 7th
Ages at death	911 ———	Essentia hypert M 7th Rev.	of the Rev.	7th Rev.	6th Rev.	sential hypert	maligna ension	7th Rev.	arteri	yperten olar ne M 7th Rev.	osion wiphrosel	F 7th Rev.	6th Rev.	M 7th Rev.	opertens isease 6th Rev.	F 7th Rev.
Ages at death All ages 0 5	911 ———————————————————————————————————	7th Rev.	of the Rev.	7th Rev.	6th Rev.	sential hypert	maligna ension	7th Rev.	arteri	yperten olar ne M 7th Rev.	osion wiphrosel	F 7th Rev. 192	6th Rev.	M 7th Rev.	opertens isease 6th Rev.	F 7th Rev.
Ages at death All ages 1	911	7th Rev.	of the Rev.	7th Rev.	174 ————————————————————————————————————	7th Rev. 345	maligna ension I 6th Rev. 95	7th Rev.	arteri	yperten olar ne M 7th Rev.	osion wiphrosel	F 7th Rev. 192	6th Rev.	M 7th Rev.	free free free free free free free free	7th Rev.
Ages at death All ages 0 1 10 20 25 30 35 35 35 50	911	7th Rev. 1203	6th Rev.	7th Rev. 1473	174 	7th Rev. 345	### ### ##############################	7th Rev. 207	178 —	7th Rev. 171 — 2 2 2 4 4 7 7	osion wiphrosel	7th Rev. 192 — — — — — — — — — — — — — — — — — — —	6th Rev.	M 7th Rev.	opertens isease 6th Rev.	7th Rev.
Ages at death All ages 0 1 10 25 35 35 40 45 55	911 ———————————————————————————————————	7th Rev. 1203	1080 — 2 4 13 24 51	7th Rev. 1473	174 — 14 4 2 7 100 300 288 299 311	345 — 1 12 21 5 5 11 22 1 5 5 31 33 33 33 33	95 — 1 1 8 8 10 12 19 171 11 5 5	7th Rev. 207	178 — 1 — 1 — 3 2 — 4 5 7 7	7th Rev. 171 2 2 4 4 7 7 13 3 23 23	6th Rev.	F 7th Rev. 192	6th Rev. 384	M 7th Rev	517 — 2 — 1 — 3 6 6 11 18 8 40	7th Rev.

450

General arteriosclerosis

450.0

Without mention of gangrene

450 - 1

With mention of gangrene as a

Table 2—continued

Causes of death

450-456

Diseases of arteries

		scases o								gang	rene			consec	quence	
	N	1	F	7	N	1	F	7	N	1	I	F	N	1	F	3
Ages at death	6th Rev.	7th Rev.	6th Rev.	7th Rev.	6th Rev.	7th Rev.	6th Rev.	7th Rev.	6th Rev.	7th Rev.	6th Rev.	7th Rev.	6th Rev.	7th Rev.	6th Rev.	7th Rev.
All ages ,.	2940	2852	3368	3181	2306	2079	2897	2634	2088	1861	2658	2399	218	218	239	235
0	1	1 1	******		_	_		_	=	_		_	=	_	_	_
5 10	1	1	-	_		_	_		_		_	_	=	_	=	_
15 20	. 1	1 3	3 4	3 4	_	_		_	_	_			_	_	_	_
25 30 35 40	8 4 14 14	8 4 14 14	10 10	5 4 11 9	3 4	2 4	1 2	_ _ 1 2	_ 3 4	_ 2 4	_ _ 1 2	_ _ 1 2		_	=	
45 50 55	27 54 .94 179	27 52 95 182	15 36 42 90	15 37 40 85	4 16 33 97	3 13 21 77	2 8 21 46	2 8 18 39	4 15 33 91	3 12 21 71	2 8 17 42	2 8 14 35	- ₁ - ₆	- ₁	_ 4 4	4 4
65	284 485	278 479	200 394	191 364	155 373	127 331	132 315	114 268	143 335	115 294	125 302	107 255	12 38	12 37	7 13	7 13
75 80 85 and over	627 630 514	597 604 491	709 871 975	654 815 944	545 579 497	489 544 468	638 804 928	572 730 880	494 523 443	439 486 414	579 737 843	513 667 795	51 56 54	50 58 54	59 67 85	59 63 85
					1		,						1			
		45				45	:2			4:	55			Δ	56	
		40	1		1	4.	, 2				, ,					_
Causes of death	no	cortic ar on-syphi secting	neurysn litic, at	nd		r aneur	ysm, exand aor		Gang	grene o		cified		Other d		of
death	no dis	ortic at	neurysn llitic, an aneury	nd	of	r aneur	rysm, ex			grene o	f unspectise	cified F		Other d	iseases eries	of F
	no dis	ortic at on-syphi secting	neurysn llitic, an aneury	nd sm	of	r aneur heart a	rysm, ex	ta		grene o	f unspectise			Other d art	iseases eries	
death Ages at	no dis	ortic ar on-syphi secting	neurysn litic, ar aneury	old sm F 7th	of 6th	r aneur a heart a	rysm, example and aor	ta F 7th	6th	grene or car	f unspectuse	F 7th	6th	Other d art	iseases eries	F 7th ,
Ages at death All ages 01	odis dis	M 7th Rev.	eurysnelitic, ar aneury	7th Rev.	of 6th Rev.	r aneur heart a	orysm, example and aor	F 7th Rev.	6th Rev.	VI 7th Rev.	f unspectise 6th Rev.	F 7th Rev.	6th Rev.	Other d art	6th Rev.	7th Rev.
Ages at death All ages 0 1 10	odis dis	M 7th Rev.	eurysnelitic, ar aneury	7th Rev.	of 6th Rev.	r aneur heart a 7th Rev.	orysm, example and aor	F 7th Rev.	6th Rev.	VI 7th Rev.	f unspectise 6th Rev.	F 7th Rev.	6th Rev. 70	Other dark	6th Rev.	7th Rev. 65
Ages at death All ages 0 5 10 15	odis dis 6th Rev.	M 7th Rev.	6th Rev.	7th Rev.	6th Rev.	7th Rev.	orysm, example and aor	F 7th Rev.	6th Rev.	VI 7th Rev.	f unspectise 6th Rev.	F 7th Rev.	70 ————————————————————————————————————	7th Rev. 70 — 1 — 1 — 2	6th Rev.	7th Rev. 65
Ages at death All ages 0 5 15	6th Rev.	M 7th Rev. 607	eurysnelitic, ar aneury	7th Rev.	of 6th Rev.	r aneur heart a 7th Rev.	orysm, example and aor	F 7th Rev.	6th Rev.	VI 7th Rev.	f unspectise 6th Rev.	F 7th Rev.	70 ————————————————————————————————————	7th Rev. 70111	6th Rev.	7th Rev. 65
Ages at death All ages 0 5 10 20 25 30	6th Rev. 488	ortic at on-syphisecting 7th Rev. 607	6th Rev.	7th Rev.	6th Rev.	7th Rev.	orysm, example and aor	7th Rev.	6th Rev.	7th Rev. 8 — — — — — — — — — — — — — — — — — —	f unspectise 6th Rev.	F 7th Rev.	70 — 1 — 1 — 2 — 6 — 1 3	7th Rev. 70 -1 -1 -2 -6 -1 -1 -1	6th Rev. 69 — 3 4 4 3 3 7 7	7th Rev. 65
Ages at death All ages 0 5 10 20 35 40 45 50	488 — 1 1 1 3 4 4 3 3 12 31 377	7th Rev. 607	354	7th Rev. 431	6th Rev. 26	7 th Rev. 45 1	form and a control of the first section of the firs	7th Rev. 16	6th Rev.	street or car	f unspectise 6th Rev.	7th Rev. 7	70 — 1 — 1 — 2 — 6 6 1 1 3 5 5 9 5 1 14	7th Rev. 70 -1 -2 -6 -1 -3 -5 -5 -14	6th Rev. 69 — 3 4 4 3 3 7 6 6 6	7th Rev. 65
Ages at death All ages 0 1 5 10 25 35 40 45 55 66 65	16th Rev. 488	7th Rev. 607	1 6th Rev. 354 —	7th Rev. 431	26 — — — — — — — — — — — — — — — — — — —	7 th Rev. 45 1	13	7th Rev. 16	7	VVI 7th Rev. 8	f unspectise 6th Rev.	7th Rev. 7	70	7th Rev. 70 1 1 2 6 1 3 3 5 9 5 14 5	69 - 3 4 4 3 3 7 7 6 6 6 9 5 5 4 4 8 8 8	7th Rev. 65

Table 2—cc	nunu	иеа														
Causes of death	an	460- iseases d other irculato	of vein	es	· "	46 Haemor				462 aricose of other	e veins		tl of	Phlebi hrombo lower e	tis and	is iies
	N	1)	F	N	1	F	,	M	[, F		N	1	? I	3
Ages at death	6th Rev.	7th Rev.	6th Rev.	7th Rev.	6th Rev.	7th Rev.	6th Rev.	7th Rev.	6th Rev.	7th Rev.	6th Rev.	7th Rev.	6th Rev.	7th Rev.	6th Rev.	7th Rev.
All ages	564	571	818	827	11	. 11	6	. 7	13	12	11	10	60	60	132	133
0 1 5	1 1	1	2 1	_1 _1	######################################		=		=	=		_			=	
15 20			1 2	1 2				-		=	_	_			1	_1
25 30 35 40	2 4 9 5	2: 4 9: 4	3 6 6 15	3 6 6 15	_ _ _		7			_	1	1 -	_ _ _	_ _1 _	-1 -4	_1 _4
45 50 55	26 36 45 68	26 36 46 69	39 45 64 111	39 46 64 113	_ _ 1	- 1	1 -1 1	- 1 - 1 - 1		- 1 1 2	1 2	_ _ _ 2	9 5 — 5	9 5 — 5	9 8 8 24	9 8 8 24
65	98 103	100 103	112 142	111	1	1	-2		2 2	2 2	1 1	1	8 11	8 11	20 20	20 20
75 80 85 and over	76 65 23	78 65 24	123 89 57	127 91 57	2 2 2	2 2 2 2		- 1 1	1 3	1 3	1 1 3	1 1 3	12 5 4	12 5 4	22 11 4	22 12 4
Causes of death	thr	Phlebi rombop	tis and		Pul	46 monary and inf	emboli arction	sm			is embo			Other d		
Causes of		Phlebi rombop	tis and hlebitis r sites			monary	emboli			r venou	is embo ombosis		C	Other d	liseases ory syst	
Causes of		Phlebi rombop other	tis and hlebitis r sites	s of F		monary and inf	emboli			r venou	is embo ombosis		C	Other dirculate	liseases ory syst	em
Causes of death	6th	Phlebi rombop other	tis and hhlebitis r sites	F 7th Rev.	6th	monary and inf M	emboli arction	7th	6th	r venou and thro	as embo ombosis	7th	6th	Other deirculate	liseases ory syst	em F
Causes of death Ages at death	6th Rev.	Phlebi rombop other M	tis and shlebitist sites	F 7th Rev.	6th Rev.	monary and inf M 7th Rev.	emboli arction	7th Rev.	6th Rev.	r venou and thro	ombosis 6th Rev.	7th Rev.	6th Rev.	Other dirculate	6th Rev.	F 7th Rev.
Causes of death Ages at death All ages 0	6th Rev.	Phlebi rombop other M	tis and shlebitist sites	F 7th Rev.	6th Rev.	monary and inf M 7th Rev.	emboli arction I 6th Rev.	7th Rev.	6th Rev.	r venou and thro	ombosis 6th Rev.	7th Rev.	6th Rev.	Other deirculate	6th Rev.	F 7th Rev.
Ages at death All ages 0	6th Rev.	Phlebi rombop other M 7th Rev.	tis and shlebitist sites	F 7th Rev.	6th Rev.	M 7th Rev. 266	emboli arction I 6th Rev. 284 1 ——————————————————————————————————	7th Rev. 286	6th Rev.	7th Rev.	ombosis 6th Rev.	7th Rev.	6th Rev.	Other deirculate	6th Rev.	F 7th Rev.
Ages at death All ages 0	6th Rev.	Phlebi rombop other M 7th Rev.	6th Rev.	F 7th Rev.	6th Rev. 266	7th Rev. 2666 1	emboli arction I 6th Rev. 284 1	7th Rev. 286 1 1 2 4 3	6th Rev. 171 1 1 1 2	7th Rev. 176 ———————————————————————————————————	6th Rev.	7th Rev. 280	6th Rev.	Other definition of the control of t	6th Rev.	9
Ages at death All ages 0	6th Rev.	Phlebi Ph	6th Rev.	F 7th Rev.	6th Rev. 266 1 12 25 2 111 111 244	7th Rev. 266 1 2 5 5 2 2 11 111 2 3 7 4 6	284 1	7th Rev. 286 1 1 24 33 2 111	6th Rev. 171 1 1 2 2 64	7th Rev. 176 ———————————————————————————————————	277 — 1 — 1 — 1 — 1 — 1 — 1 — 1 — 1 — 1 —	7th Rev. 280	6th Rev. 99	Other deirculate	6th Rev.	9

Table 2—continued

Causes of		468	8			VI				470-	475			47	70	
death	lyr	nph no	seases of des and nannels	f		470– Diseases spirator	of the	m	Acute	e upper infect	respira ions	tory	Acu (te naso commo	pharyn on cold)	gitis
A	M		F		N	1	1	7	N	1	F	7	N	1	F	7
Ages at death	6th Rev.	7th Rev.	6th Rev.	7th Rev.	6th Rev.	7th Rev.	6th Rev.	7th Rev.	6th Rev.	7th Rev.	6th Rev.	7th Rev.	6th Rev.	7th Rev.	6th Rev.	7th Rev.
All ages	1	1	7	- 8	21358	21535	13630	13768	29	28	34	34	3	2	3	3
0 1 5 10	1	1	-1 -1	1 -1 -	495 183 84 104	497 184 84 104	383 164 83 143	386 163 84 144	4 7 5 1	4 6 5 1	6 6 2	6 6 2	_1 _	_1 _	= 1	1
15 20		_	_	_	117 91	117 93	103 99	104 99	_ ₁	-1	_1	_1		_	_	_
25	=	=	=		75 106 162 291	75 109 163 295	105 115 141 204	108 119 147 209	-\frac{1}{-2}	1 			=	=		
45	=		_ _ _ 2	_ _ 	500 1180 2018 2776	517 1202 2044 2810	278 418 642 986	287 426 651 1005	_ _ 1 1	1 1 1	1 1 1	1 1 1		=	_ _ _	
65 70		_	_ ₁	1	3487 3375	3520 3392	1450 1900	1473 1927	1	1	1 3	1 3	_	_		_
75 80 85 and over			1 1	1 1	2947 1989 1378	2954 1990 1385	2121 2027 2268	2141 2026 2269	3 2	3 1	3 3 3	3 3 3		_1		
Causes of death			473 tonsiliti	s	in	ate uppe fection r unspe	of mul	tiple		480-				Influer	80 nza with monia	1
death			tonsiliti	s F	in	ite uppe fection	r respi	tiple			enza	F	I	Influer	nza with monia	F
	6th Rev.	Acute M 7th	tonsiliti		in o 6th	te uppe fection r unspe M	r respi	F 7th	6th Rev.	Influ	enza	F 7th Rev.	I 6th Rev.	Influer pneu	nza with monia	
death Ages at	6th	M 7th Rev.	6th Rev.	F 7th	6th Rev	M 7th Rev.	of mulicified s	F 7th Rev.	6th	Influ M	enza 6th	7th	6th	Influer pneu	6th Rev.	7th Rev. 2120
Ages at death	6th Rev.	Acute M 7th Rev.	6th Rev.	F 7th Rev.	6th Rev	M 7th Rev.	or respired for multiplication of multiplication of multiplication of the control	F 7th Rev.	6th Rev.	Influ M 7th Rev.	6th Rev.	7th Rev.	6th Rev.	Influer pneu M 7th Rev.	oth Rev.	7th Rev.
Ages at death All ages 0 1 5	6th Rev.	Acute M 7th Rev.	6th Rev.	7th Rev.	6th Rev	M 7th Rev.	or respired for multiplication of multiplication of multiplication of the control	F 7th Rev. 5	6th Rev. 3308 36 51 41	7th Rev. 3306	6th Rev. 2920 29 35 42	7th Rev. 2921 29 35 42	6th Rev. 2378 28 41 32	7th Rev. 2377 28 41 32	6th Rev. 2118 22 26 35	7th Rev. 2120 22 26 35 88 75 60
Ages at death All ages 0 1 5 10	88 — 1 3 — 1 — 1 — — 1	Acute M 7th Rev. 9 - 1 3 -	6th Rev.	7th Rev.	6th Rev	M 7th Rev. 5 4	or respired for multiplication of multiplication of multiplication of the control	F 7th Rev. 5	6th Rev. 3308 36 51 41 64 78	7th Rev. 3306 51 41 64 78	6th Rev. 2920 29 35 42 95 78	7th Rev. 2921 29 35 42 95 78	6th Rev. 2378 28 41 32 49 59	7th Rev. 2377 28 41 32 49	6th Rev. 2118 22 26 35 88 75	7th Rev. 2120 22 26 35 88
Ages at death All ages 0 1 15 20 25 35	88 ———————————————————————————————————	7th Rev.	6th Rev.	7th Rev.	6th Rev	M 7th Rev. 5 4	or respired for multiplication of multiplication of multiplication of the control	F 7th Rev. 5	3308 366 51 41 64 78 44 40 48 60	7th Rev. 3306 366 51 41 64 78 44 40 48 60	6th Rev. 2920 299 35 42 95 78 67 57 57 68	7th Rev. 2921 29 35 42 95 78 67 57 57 68	6th Rev. 2378 28 41 32 49 59 36 34 34 39	7th Rev. 2377 28 41 32 49 36 34 39 47	2118 22 26 35 88 75 60 52 48	7th Rev. 2120 22 26 35 88 75 60
Ages at death	88 1 3 3 1 1 1 1 1 1 1 1 1 1 1 1	7th Rev. 99 -1 3 3 -1 -1 -1 -1	6th Rev.	7th Rev.	6th Rev	M 7th Rev. 5 4	or respired for multiplication of multiplication of multiplication of the control	F 7th Rev. 5	6th Rev. 3308 36 51 41 64 78 44 40 48 60 86	7th Rev. 3306 51 41 64 78 44 40 48 60 60 85 125 228 350	6th Rev. 2920 293 35 42 95 78 67 57 68 91 113 139	7th Rev. 2921 29 35 42 95 78 67 57 68 92 113 139 192	6th Rev. 2378 28 411 32 49 59 36 34 39 47 73 97 181 270	7th Rev. 2377 28 41 32 49 36 34 39 47 77 73 181 270	2118 226 35 88 75 60 52 48 56 73 87 110	7th Rev. 2120 226 35 88 75 60 522 48 56 74 87 110

Table 2—c	ontin	иеа														
Causes of death	respira	luenza atory m and inf unqua	with oth anifesta luenza	ner itions,	diges	but w	za with nifestat		nerve	but wi	za with nifestat ithout	ions,			-493 monia	
	N	1	1	F	N	, A	1	7	N	vI.		F	1	νI	1	F
Ages at death	6th Rev.	7th Rev.	6th Rev.	7th Rev.	6th Rev.	7th Rev.	6th Rev.	7th Rev.	6th Rev.	7th Rev.	6th Rev.	7th Rev.	6th Rev.	7th Rev.	6th Rev.	7th Rev.
All ages	908	907	774	775	6	6	13	12	16	16	15	14	6389	6420	5985	5997
0; 1 5	6 9 7 10	6 9 7 10	6 7 3 4	6 7 3 4	_ _ _	1 	_1 _1	_1	1 1 2 5	1 2 5	1 1 4 3	1 1 4 3	366 92 29 29	369 93 29 29	279 102 25 34	281 102 26 34
15 20	15 8	15	- 3	3 7	_	<u>-</u>	=		_4	-4	=	_	26 32	26 33	15 25	15 25
25	5 9 13 13	5 9 13 12	4 8 12 18	4 8 12 18		<u>+</u> <u>+</u> 	=	1	=1	1 -	_1	1	22 34 47 86	22 35 47 86	34 31 44 59	35 33 45 59
45	28 44 80 115	28 45 80 115	25 29 47 68	25 29 48 68	=		- 1 1	_ 1 1			-1 3 1		132 289 385 607	135 291 390 609	91 134 225 366	91 134 223 367
65	156 131	156 131	101 95	102 95	_2	_2	1 2	1 2			=	_	825 900	831 902	526 820	526 821
75 80 85 and over	134 58 67	133 58 67	122 93 122	122 93 121	1	1	1 3 2	1 3 1	=	_	_	<u>-</u>	979 842 667	981 842 670	972 1014 1189	976 1013 1191
									1							
Causes of death	L	49 obar pr	00 neumon	ia	Bre	49 onchop	91 neumor	ria	F		atypica nonia	ıl		neumo	93 nia, oth	er
death			leumon	ia F			neumor	nia (rimary	atypica nonia	ul F		neumo	nia, oth specifie	er
		obar pr	leumon			onchop	neumor			rimary pneur	atypica nonia			eneumo and un	nia, oth specifie	eer d
death	6th	obar provided the state of the	eumon 6th	F 7th	M 6th	onchop 7th	neumor	7th	6th	Primary pneur	atypica nonia	F 7th	6th	neumo and un	nia, oth	eer d
Ages at death	6th Rev.	obar production of the Rev.	6th Rev.	7th Rev.	6th Rev.	onchop 7th Rev.	6th Rev.	7th Rev.	6th Rev.	Primary pneur	atypica nonia 6th Rev.	7th Rev.	6th Rev.	Pneumo and un 7th Rev.	nia, oth specifie	F 7th Rev.
Ages at death All ages 0	985 15 8 4	7th Rev. 989	6th Rev. 676	7th Rev. 674	6th Rev. 4972 313 77 23	7th Rev. 4998 318 78 23	6th Rev. 4947 226	7th Rev. 4969 230 80 23	6th Rev. 62	7th Rev.	atypica nonia 6th Rev. 58	7th Rev. 58	6th Rev. 370	7th Rev.	nia, othespecifie	7th Rev.
Ages at death All ages 0	985 15 8 4 6	7th Rev. 989	6th Rev. 676	7th Rev. 674 15 9	6th Rev. 4972 313 77 23 18	7th Rev. 4998 318 78 23 18	6th Rev. 4947 226 80 22 21	7th Rev. 4969 230 80 23 21	6th Rev. 62 11 2 -3	7th Rev.	atypica nonia 6th Rev. 58 15 4	7th Rev. 58	6th Rev. 370 27 5 2 2 2	7th Rev. 370 24 5 2 2 3	6th Rev. 304 23 9 2 4	7th Rev. 296 21 9 24
Ages at death All ages 0 15 20 35 35	985 15 8 4 6 4 11	7th Rev. 989 16 8 4 6 4 11 2 7 14	6th Rev. 676 15 9 1 9	7th Rev. 674 15 9 1 9 3 3 6 10 7	6th Rev. 4972 313 77 23 18 17 12 16 19 25	7th Rev. 4998 318 78 23 18 17 13	6th Rev. 4947 226 80 22 21 11 16 22 20 32	7th Rev. 4969 230 80 23 21 11 17 23 21 33	62 11 2 -3 2 1-	7th Rev. 63 11 2 3 2 1 - 1 3	atypica nonia 6th Rev. 58 15 4 —	7th Rev. 58 15 4 2 3	370 27 5 22 2 3 8 4 7 6	7th Rev. 370 24 5 2 2 3 8 3 8	1 6th Rev. 304 23 9 2 4 1 4	7th Rev. 296 21 9 2 4
Ages at death All ages 1	985 15 8 4 6 4 11 2 7 13 14 38 65 158	7th Rev. 989 16 8 4 11 2 7 14 16 38 65 118	6th Rev. 676 15 9 1 9 7 14 20 24 35	7th Rev. 674 15 9 1 9 3 3 6 10 7 14 20 23 3 34	4972 313 77 23 18 17 12 16 19 25 63 80 197 245	7th Rev. 4998 318 78 23 18 17 13 17 19 19 25 62 81 198 249	1 6th Rev. 4947 226 80 22 21 116 22 20 32 41 59 95 176	7th Rev. 4969 230 80 23 21 11 17 23 21 13 41 59 96 176	6th Rev. 62 11 2 3 2 1 - 1 3 3 4 3 6	7th Rev. 63 11 2 - 3 2 1 - 13 3 4 3 6	15 4 2 3 - 3 2 2 3 4 4	7th Rev. 58 15 4 2 3 3 2 2 3 4	6th Rev. 370 27 5 2 2 2 3 8 4 7 6 6	7th Rev. 370 24 5 2 2 3 8 5 5 5 12 2 25 17	304 23 9 2 4 4 4 3 2 2 2 2 10 12	7th Rev. 296 21 9 22 4 13 3 22 22 10 112 9

Table 2—c	ontini	uea														
Causes of death		500~		F	A	: 50			٠.,	Brond unqua	hitis		C		02 bronchi	itis
	M	1	9 F	2	· N	1	· F	3	N	1 .	. 1	F	1	M	F	7
Ages at death	6th Rev.	7th Rev.	6th Rev.	7th Rev.	6th Rev.	7th Rev.	6th Rev.	7th Rev.	6th Rev.	7th Rev.	6th Rev.	7th Rev.	6th Rev.	7th Rev.	6th Rev.	7th Rev
All ages	9,888	9,882	4,031	4,090	736	740	719	728	470	471	419	440	8,682	8,671	2,893	2,92
0 1 5 10	69 26 5 5	70 27 5 5	50 20 9 8	50 19 9 9	56 21 3 3	56 22 3	34 15 5 7	34 15 5 8	9 4 1 2	10 4 1 1	14 4 3 1	14 4 3 1	1 1	4 1 1 1	2 1 1	
15 20	6 3	6 3	6 5	7 5	4 2	4 2	5 4	5 3	_1	1	-1	_2	1 1	1	_1	-
25 30 35 40	1 11 34 72	1 12 34 75	6 12 18 36	7 12 21 38	1 2 3 9	1 2 3 9	2 3 6 8	2 5 7 8	2 4 4	1 4 4	2 3 1	3 3 1 3	7 27 59	9 27 62	2 6 11 27	1 2
45 50 55 60	172 524 1,030 1,441		55 108 178 308	61 110 182 313	8 32 42 62	8 34 42 62	10 15 23 33	11 15 26 33	6 18 26 36	9 21 29 44	6 6 7 26	5 7 12 30	158 474 962 1,343	165 480 957 1,343	39 87 148 249	4 8 14 25
65 70	1,831 1,792	1,830 1,770	474 673	490 690	66 110	65 108	60 82	60 84	77 79	72 76	29 48	31 48	1,688 1,603		385 543	39 55
75 80 85 and over	1,479 883 504	1,468 878 504	752 657 656	761 653 653	117 101 94	119 103 94	114 121 172	114 122 171	85 60 56	84 56 54	71 73 123	82 70 121	1,277 722 354	1,265 719 356	567 463 361	56 46 36
									_							
							· · ·						1			
Causes of death]	502 Bronchi emphy	itis with	1		502 Others i unde	nclude	1			liseases iratory			Other d	iseases espirato act	
death		Bronchi	itis with	ı F		Others i	ncluded r 502	i F		Other of resp	diseases oiratory tem			Other d	iseases espirato act	
		Bronchi emphy	itis with			Others i unde	ncluded r 502			Other of resp	diseases oiratory tem			Other dupper re	iseases espirato act	ry
death Ages at	6th	Bronchi emphy M 7th Rev.	itis with ysema	F 7th	6th Rev.	Others i unde	ncluded r 502	F 7th	6th Rev.	Other of resp syst	diseases iratory tem	F 7th	6th	Other dupper retr	iseases espirato act	F 7tl
Ages at death	6th Rev.	Bronchi emphy M 7th Rev.	6th Rev.	7th Rev.	6th Rev.	Others i unde	ncluded r 502	7th Rev.	6th Rev.	Other of resp syst	diseases iratory tem 6th Rev.	F 7th Rev.	6th Rev.	Other dupper retr	iseases espirato act	F 7tl
Ages at death All ages 0 1 5	6th Rev. 4,457	Bronchi emphy 7th Rev. 4,461	6th Rev.	7th Rev.	6th Rev.	Others i unde Market A,210	6th Rev.	7th Rev. 2,141	6th Rev. 1,744	Other coof resp system 7th Rev. 1,899	diseases iratory tem 6th Rev. 660 19 15	7th Rev. 726	6th Rev. 14	Other dupper retr	iseases espirato act	F 7tl
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Table 2—c	ontinu	ea														
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Ages at death	6th Rev.	7th Rev.	6th Rev.	7th Rev.	6th Rev.	7th Rev.	6th Rev.	7th Rev.	6th Rev.	7th Rev.	6th Rev.	7th Rev.	6th Rev.	7th Rev.	6th Rev.	7th Rev.
All ages	8:	8	10	9	35	35	15	16	376	373	5.	5	9	10	3 .	- 3
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Causes of death	Br	520	6 ectasis				7 ses of h							Diseases	-539 of buck	
death	Br	ronchi				r disea d pleur	ses of lu	y		530- Disease	-587 s of the	n	cav	Diseases	of buce oesoph	
	M 6th	ronchi	ectasis	7th Rev.	an	r disea d pleur	ses of lu	y		530- Disease Digestive	s of the System	n	cav	Diseases vity and	of buce oesoph	agus
death Ages at	M 6th	7th	ectasis F	7th	An M	or disea d pleur f	ses of lual cavity	7th Rev.	6th Rev.	530-Disease Digestive M 7th Rev. 4,143	587 s of the System 6th Rev. 3,431	7th Rev.	6th Rev.	Diseases rity and M 7th Rev.	of buccoesoph	agus F
Ages at death All ages 0	M 6th Rev. I	7th Rev.	ectasis F 6th Rev.	7th Rev.	M 6th Rev.	er disea d pleur 1 7th Rev.	ses of lual cavity	7th Rev.	6th Rev.	530-Disease Digestive	s of the System	7th Rev.	6th Rev.	Diseases vity and M 7th Rev.	of buck oesoph	7th Rev.
Ages at death All ages	M 6th Rev. 1	7th Rev.	6th Rev. 252 1 3	7th Rev. 320	6th Rev. 539	or disea d pleur 7th Rev.	ses of lural cavit	7th Rev.	6th Rev. 4,144 181 48 27	530-Disease Digestive M	587 s of the System 6th Rev. 3,431 112 34 11	7th Rev. 3,431 111 33 11	6th Rev.	Diseases vity and M 7th Rev. 56	of buck oesoph	7th Rev.
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Ages at death All ages 0	M 6th Rev. 1 524 — 1 4 9 6 8 12 22 30 45 71	7th Rev. 685 — 1 4 10 6 6 9 13 24 35 55 96	ectasis 6th Rev. 252 1 3 2 1 4 11 7 13 11 222 255	7th Rev. 320 1 3 1 5 13 9 17 14 26 33	539 10 3 1 3 2 2 12 16 40 79	537 9 3 2 2 12 15 41 77	ses of lt al cavit 6th Rev. 110 1 2 1 64 410	7th Rev. 110 10 1	6th Rev. 4,144 181 48 27 14 14 14 14 19 188 24 27 19 188 253	530-Disease Digestive M 7th Rev. 4,143 180 48 27 14 14 24 47 655 93 187 252 421 451	587 s of the System 6th Rev. 3,431 112 34 11 11 14 15 17 26 33 60 78 165 213	7th Rev. 3,431 111 33 111 14 15 17 26 33 62 78 165 213	54 4 1 2 1 2 7	7th Rev. 56 5	6th Rev. 48 -1 -1 -1 2 1 4	51

Causes of death	occ						seases o		ç	Disea	ses of glands		538 Other diseases of buccal cavity			
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Ages at death	6th Rev.	7th Rev.	6th Rev.	7th Rev.	6th Rev.	7th Rev.	6th Rev.	7th Rev.	6th Rev.	7th Rev.	6th Rev.	7th Rev.	6th Rev.	7th Rev.	6th Rev.	7th Rev.
All ages	2	_	4	3	_	_	_	1	11	11	21	22	1	5	2	14
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85 and over Causes of death	stoma	Diseas	ses of	num	U	54	stomac)	h	w	540 /ithout			V		0·1	-n
Causes of death	stoma	Diseas	ses of		U	lcer of			w	540 lithout of perfo	0·0	n .	V	With pe		
85 and over Causes of		Diseas	ses of duode			lcer of	stomac		W	540 lithout of perfo	0·0	n .		With pe	erforatio	
Causes of death Ages at death All ages	6th Rev.	Diseasach and 7th Rev.	ses of duode F 6th Rev.	7th Rev.	6th Rev.	Th Rev.	stomacl F 6th	7th	W 6th Rev.	540 /ithout of perfo	mention oration	n .	6th Rev.	With pe	erforation I	F 7th
Causes of death Ages at death All ages	6th Rev. 1832	Diseas ach and 7th Rev. 1830	ses of duode	7th Rev.	6th Rev.	7th Rev. 832	stomacl F 6th Rev.	7th Rev.	W 6 6th Rev.	540 Vithout of perfo	mention oration From 6th Rev.	77th Rev.	6th Rev.	7th Rev. 231	erforation	7th Rev.
Causes of death Ages at death All ages	6th Rev. 1832	Disease ach and The Rev.	ses of duode F 6th Rev.	7th Rev.	6th Rev.	Th Rev.	stomacl F 6th Rev.	7th Rev.	W 6th Rev.	540 /ithout of perfo	mention oration From 6th Rev.	77th Rev.	6th Rev.	With pe	erforation	7th Rev.
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Causes of death		Ulce duode	r of			541 7ithout of perfo	mentio	1 .	W	541 Vith per	·1	n	Disorders of function of stomach			
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death	6th Rev.	7th Rev.	6th Rev.	7th Rev.	6th Rev.	7th Rev.	6th Rev.	7th Rev.	6th Rev.	7th Rev.	6th Rev.	7th Rev.	6th Rev.	7th Rev.	6th Rev.	7th Rev.
all ages	932	932	228	227	582	579	145	145	350	353	83	82	3	3	3	4
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death		Other dof stome	liseases ach and					7			pendici	tis F		Withou	t mentic	on F
Causes of death		Other dof stome	liseases ach and		6th Rev.	Appen	dicitis	7th Rev.		cute app	pendici			Without of per	t mentic	
death Ages at	N 6th	Other dof stome duode	liseases ach and enum	F 7th	6th	Appen	dicitis	7th	N 6th	oute app	pendicis 6th	F 7th	6th	Without of per	t mentionitis	F 7th
Ages at death All ages 0	6th Rev.	Other dof stome duode	liseases ach and enum	F 7th Rev.	6th Rev.	Appen 7th Rev. 264	dicitis 6th Rev.	7th Rev.	6th Rev. 223	7th Rev.	6th Rev.	7th Rev.	6th Rev.	Without of per M 7th Rev. 30	t mentionitis	7th Rev.
Ages at death All ages 0 5	6th Rev.	Other dof stome duode	liseases ach and enum	F 7th Rev.	6th Rev. 263 — 8 7 7	7th Rev. 264 — 8 7 7	6th Rev. 140 -5 22 5	7th Rev. 140 5 2 5	223 -8 67	7th Rev. 224 8 6 7	6th Rev. 119	7th Rev. 119	6th Rev.	Without of per	6th Rev.	7th Rev.
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Ages at death All ages 0 1 5 0 5 0 5 0 5 0 5 0 5 0	6th Rev.	Other doff stome duode 7th Rev.	6th Rev.	7th Rev. 19	6th Rev. 263	7th Rev. 264	140 — 5 2 5 1 — 4 1 4	7th Rev. 140 5 2 5 3 1 4 1 4	6th Rev. 223 	7th Rev. 224 -8 66 7	6th Rev. 119 -5 25 21 -3 13	7th Rev. 119	31 — 2 2 2 — — — — — — — — — — — — — — —	Without of per M 7th Rev. 30	f menticitonitis 6th Rev. 10 -1 -1	7th Rev. 10 -1

Causes of death	\	550 With pe)·1 ritonitis		al	560- Hern odomin	-561 ia of al cavit	у.	cavit	y witho	abdomi out men ruction	intest	Other d	-578 iseases of d perito	of one	
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death	6th Rev.	7th Rev.	6th Rev.	7th Rev.	6th Rev.	7th Rev.	6th Rev.	7th Rev.	6th Rev.	7th Rev.	6th Rev.	7th Rev.	6th Rev.	7th Rev.	6th Rev.	7 R
All ages	192	194	109	109	381	380	390	389	104	103	81	80	868	866	1102	11
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	wit	stinal o	bstruct lention nia	of		Paralyt	ic ileus	7th Rev.		senteric	infarct		6th Rev.	Vol	vulus	7 R
death Ages at	wit N 6th	estinal of thout me her	obstruct ention nia I	of 7th	N 6th	Paralyt 1 7th	ic ileus I	7th	N 6th	senteric 1	infarct	7th	6th	Vol	vulus I 6th	7
Ages at death	Months and the second s	estinal or thout m her	bstruct tention nia F 6th Rev.	7th Rev.	6th Rev.	Paralyt Tth Rev.	ic ileus I 6th Rev.	7th Rev.	6th Rev.	7th Rev.	infarct 6th Rev.	7th Rev.	6th Rev.	Vol.	vulus I 6th Rev.	7
Ages at death All ages 0	6th Rev.	ostinal of thout ment her her her her her her her her her her	bbstruct tention nia I 6th Rev. 306	7th Rev.	6th Rev.	Paralyt Tth Rev.	I for the few few few few few few few few few fe	7th Rev. 6	6th Rev.	7th Rev.	infarct 6th Rev.	7th Rev. 120	6th Rev.	Vol. 7th Rev.	ovulus I 6th Rev.	7
Ages at death All ages 1	6th Rev.	A 7th Rev. 313	bbstruct tention nia I 6th Rev. 306	7th Rev. 307 15 2 2	6th Rev.	Paralyt Tth Rev.	I for the few few few few few few few few few fe	7th Rev. 6	87	7th Rev.	infarct 6th Rev.	7th Rev. 120	95 5 —	7th Rev.	ovulus I 6th Rev.	7
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Causes of		570	-4			570	.5			57	/2		572 · 1			
death		Impact intes			C	Others is under	ncluded r 570				enteriti tive coli			Divert	iculitis	
A	N	1	F	3	N	1	I		N	1	F	7	N	1	F	
Ages at death	6th Rev.	7th Rev.	6th Rev.	7th Rev.	6th Rev.	7th Rev.	6th Rev.	7th Rev.	6th Rev.	7th Rev.	6th Rev.	7th Rev.	6th Rev.	7th Rev.	6th Rev.	7th Rev.
ll ages	4	2	20	18	110	114	80	85	272	276	461	469	161	165	276	285
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Causes of		572	2.2			572	2.3			57	73			5′	75	
Causes of death	U		·2 ve coliti	s	(ncluded		Fur		l disord	ers		5' Abscess nd recta	of ana	
death	U	lcerativ	ve coliti	s		Others i	ncluded			nctiona	l disord	ers	a	Abscess	of ana	ns
		lcerativ	ve coliti			Others i unde	ncluded r 572			of inte	l disord		a	Abscess nd recta	of ana	ns
death Ages at	N 6th	// // // // // // // // // // // // //	ve coliti	7th	- N 6th	Others i unde	ncluded r 572	7th	- N	of inte	l disord	7th	a 6th	Abscess nd recta	of ana region	7th
Ages at death	6th Rev.	A 7th Rev.	e coliti	7th Rev.	6th Rev.	Others i unde M 7th Rev.	ncluded r 572	7th Rev.	6th Rev.	of inte	l disord	7th Rev.	6th Rev.	Abscess nd recta 7th Rev.	of ana region	7th Rev.
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Ages at death Il ages 0 1 0 5	87 —	7th Rev.	158	7th Rev. 157	6th Rev.	Others i unde unde 7th Rev. 7	6th Rev.	7th Rev.	6th Rev.	7th Rev.	l disord	7th Rev.	6th Rev.	Abscess nd recta	of ana region	7th Rev.
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Ages at death Il ages	87 — 1 3	7th Rev. 86 1 3 3 5 10	158 — 3 7 6 8 8	7th Rev. 157 — 3 76 8 10	6th Rev.	Others i unde unde 7th Rev. 7	6th Rev.	7th Rev.	6th Rev.	7th Rev.	l disord	7th Rev.	6th Rev.	Abscess nd rects 7 th Rev.	s of ana laregion	7th Rev.

Causes of	576 Peritonitis						78				-587		581			
death		Perito	onitis			intestin	seases ones and oneum	f	g	allblade	of liver der, and creas	1		Cirrhosi	is of liv	er
Ages at	N	M	1	F	N	M]	F	N	M		F	N	Л		F
death	6th Rev.	7th Rev.	6th Rev.	7th Rev.	6th Rev.	7th Rev.	6th Rev.	7th Rev.	6th Rev.	7th Rev.	6th Rev.	7th Rev.	6th Rev.	7th Rev.	6th Rev.	7: R
All ages	23	24	32	32	82	73	93	84	746	747	1009	1012	345	343	266	2
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45 50 55 60	1 1 3	2 1 3	2 2 3		3 7 8 7	2 5 6 7	1 5 9 5	1 5 8 7	47 49 93 90	47 50 92 91	32 57 77 116	32 58 79 116	31 28 58 52	31 29 57 52	14 24 39 37	
65– 70–	6 3	6 3	4 8	4 8	5 8	5 8	14 11	11 9	101 85	100 84	137 161	137 161	46 35	45 34	44 47	
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Causes of		584	4			58.				58	7				X 637	
Causes of death		584 Cholelit			cho	holecys	5 titis and s withou	ut]	Dise		7 f pancre	as	Gen		-637	e 'ster
death	M	Cholelia			cho	holecys plangitis ention o	titis and	ut li	Disc	eases of			Gen	590- Disease ito-Urir	-637 es of the	e vster
Causes of death Ages at death		Cholelia	thiasis	7th Rev.	chc me	holecys plangitis ention o	titis and s withou of calcu	ut li		eases of	f pancre		Gen	590- Disease ito-Urir	-637 es of the	sten
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Ages at death	6th Rev.	7th Rev.	6th Rev.	7th Rev.	6th Rev.	7th Rev.	6th Rev.	7th Rev.	6th Rev.	7th Rev.	6th Rev.	7th Rev.	6th Rev.	7th Rev.	6th Rev.	7th Rev.
All ages	1175	1112	946	927	38	36	34	33	110	107	62	61	881	848	750	742
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5	23 34	23 27	14 24	13 20	2 2	2	3 2	3	6 4	6	. 1	1	15 25	15 21	9 20	9 18
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5	65 108 107 100	59 93 96 91	30 64 79 101	29 60 77 98	 3 1 2	3 1 1	- ₁	1 1	6 9 9 10	6 9 9 10	2 5 5 9	2 5 5 9	48 77 78 73	47 73 72 67	24 50 68 80	24 49 68 80
65	127 117	125 118	99 117	98 119	_2	2	5 2	5 2	12 7	12	7 8	7 8	99 96	95 95	77 93	77 94
75 10 35 and over	124 93 55	124 94 52	108 96 75	112 97 72	2 3	2 3	3 1 2	3 1 2	5 4 1	5 4 1	5 4 2	5 4 2	102 74 43	100 73 40	89 76 65	. 88 77 61
		32	1,5	12							1					
Causes of death	Nep	59 hritis n		ified	Oth	59 ner rena			0		-609 seases o	of	In		00 of kids	ney
Causes of death	Nep as	59 hritis n	ot speci	ified)4	sis	0	ther dis	seases o	f				
Causes of	Nep as	59 hritis n acute o	ot speci	ified nic		ner rena	94 al sclero	sis 7th	0	ther dis	seases o system	f		fections	of kid	
Causes of death	Nep as	hritis n acute o	ot specior chron	ified nic	N 6th	M 7th	od sclero	sis 7th	O M	other distribution of the	seases o system	of 7th	6th Rev.	fections A 7th	of kids 6th Rev.	7th Rev.
Causes of death Ages at death	Nep as	hritis nacute of	ot specior chron	ified nic	6th Rev.	7th Rev.	old sclero	sis 7th Rev.	O M	other dispurinary 7th Rev.	seases of system 6th Rev.	7th Rev.	6th Rev.	7th Rev.	of kids	7th Rev.
Causes of death Ages at death All ages 0	Nep as Nef as 141	59 hritis n acute of A 7th Rev.	ot specior chron	ified nic F 7th Rev. 83	6th Rev.	7th Rev.	6th Rev.	7th Rev.	6th Rev. 675	7th Rev.	6th Rev. 769 4 2 1 4 2	7th Rev.	6th Rev.	7th Rev.	6th Rev. 506 4 3 1	7th Rev. 505 4 3 1 - 2 2
Causes of death Ages at death MI ages 0 5	Nep as 6th Rev. 141	7th Rev.	ot specior chron	ified nic F 7th Rev. 83	6th Rev.	7th Rev.	6th Rev.	7th Rev.	66th Rev. 675 10 4 1 3 2	7th Rev. 671 11 4 1 3 2	6th Rev. 769	7th Rev. 766 6 4 2 1	6th Rev. 368	7th Rev. 369 6 3 - 1	6th Rev. 506	7th Rev. 505
Ages at death All ages 0 5 25 10 15 10	Nep as Nep as 141 1 3 1 6	550 A1 7th Rev. 116 1 1 3	93 ot specier chron fith Rev. 93	7th Rev.	6th Rev.	7th Rev.	ot sclero If 6th Rev.	7th Rev. 8 2 1 1	6th Rev. 675 10 4 4 1 3 3 2 6 6 3 3 6 6 10 0	7th Rev. 671 11 4 1 3 2 6	6th Rev. 769 7 4 2 1 1 4 2 5 4 1 2	7th Rev. 766 6 4 2 1 4 2 5 4	368 5 3 	7th Rev. 369 6 3 - 1 3 1 3 5	6th Rev. 506 43 1 — 2 2 2 3 4 4 8	7th Rev. 505 4 3 1
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	603 Other diseases of kidney and ureter					60	16			60	9		610-	-617	610	
Causes of death					0	ther dis	seases o	f	0	ther dis	seases o hra	of	male g	ses of genital ans	Hyper o pros	plasi f state
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Ages at death	6th Rev.	7th Rev.	6th Rev.	7th Rev.	6th Rev.	7th Rev.	6th Rev.	7th Rev.	6th Rev.	7th Rev.	6th Rev.	7th Rev.	6th Rev.	7th Rev.	6th Rev.	7th Rev
All ages	17	16	15	13	43	40	13	13	19	18	13	13	1884	1885	1838	184
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65 70	7	_6	1 2	1 2	9	7 6	_1	_1	3 4	3 4		2	185 320	185 320	178 316	17
75 80 85 and over	1 3	1 3	-1	1 1	5 4 7	5 3 6	1 2 3	1 2 3	 4 5	1 3 4	3 4	3 4	456 440 339	454 443 339	439 435 335	43 43 33
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Causes of death	Prost		0	eries ad cations f ancy, birth, the	Comption	plica-	Toxa	emias of nancy	Deli with menti	ivery nout ion of ication	Dell comp by pla prae- antep	ivery licated acenta via or artum orrhage	Deli with comp tion	ivery other plica- is of lbirth	Comptions	-689 plica of th
	Prost	atitis	640- Deliver are Compliant of Pregner Chird and Puerp	eries and cations francy, birth, the erium	Comption	plica- s of nancy	Toxa o pregr	emias of nancy	Deli with menti compl	ivery nout ion of ication	Del comp by pli prae antep haeme	ivery licated acenta via or eartum orrhage	Deli with comp tion child	other other plica- is of ibirth	Comptions puerp	plica of th erium
death	Prost	atitis	Deliver are Complied of Chiral and Puerp	eries ad cations f ancy, birth, the erium	Com; tion pregr	plica- s of nancy	Toxa o pregu	emias of nancy	Deli with menti compl	ivery nout ion of ication	Del comp by pli prae antep haeme	ivery licated acenta via or eartum orrhage	Deli with com tion child	other plica- is of birth	Comptions puerp	plica of th eriur
death Ages at	Prost:	atitis	Deliver and Compliant Compliant of Pregn Chird and Puerp	eries and cations of sancy, birth, the erium	Comption pregr	plica- s of lancy	Toxa pregt	emias of nancy	Deli with menti compl	ivery nout ion of ication	Delicomp by pli prae antep haemo	ivery licated acenta via or artum orrhage	Deli with comp tion child	other plicasis of abirth	Comptions puerp	plica of the erium
death Ages at death	Prosts M 6th Rev.	atitis 7th Rev.	640- Delive ar Complie of Pregn Child and Puerp 6th Rev.	deries and cations of surely, the erium	Comption pregr	plica- s of nancy 7th Rev.	Toxa c pregt	emias of hancy	Deli with menti compl	ivery nout ion of ication 7th Rev.	Del comp by pli prae antep haemo	ivery licated accenta via or vartum orrhage	Deliwith comparison child	overy other plica- is of ibirth 7th Rev.	Comptions puerp	plica of the erium
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Ages at death All ages 0	Prosts M 6th Rev.	atitis 7th Rev.	640- Delive ar Complii of Pregn Chird and Puerp file 6th Rev.	deries and cations of ancy, birth, the erium	Comption pregri	7th Rev.	Toxa C pregnt 6th Rev. 39	emias of hancy 7th Rev.	Deli with menti compl	rivery nout ion of ication 7th Rev.	Del comp by pli prae antep haemo	ivery licated accenta via or vartum orrhage	Deli with comparison child	overy other plica- is of ibirth 7th Rev.	Comptions puerp	plica of the erium
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Causes of death	Cer haemo	ebral orrhage the perium		690-	III -716 of the Sl lar Tiss			ctions	-698 of skin ous tiss		absc	ess with	692 Ilulitis a nout me phangit	ention
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Ages at death	Ages at death 6th 7th Rev. Rev			7th Rev.	6th Rev.	7th Rev.	6th Rev.	7th Rev.	6th Rev.	7th Rev.	6th Rev.	7th Rev.	6th Rev.	7th Rev.
All ages	1		102	101	137	138	37	39	46	46	16	19	24	24
0 1 5			5 3	3	5 1 1	5 1 1	4 2 —	3 2 —	4 1 =	4 1 —	1 -	1 -	4	_4
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45		=	5 7 7 6	5 7 7 5	3 7 8 6	3 8 7 6	3 3 3 2	3 3 2	2 1 4 3	2 1 4 3	1 -3 2	-1 -3 2		
65	-=		13 16	13 16	13 19	13 19	5 5	6 5	3 5	3 5	1 2	2 2	-3	
75 80 85 and over	=	=	10 13 8	10 14 8	26 13 23	26 13 24	3 2 2	3 3 3	9 3 5	9 3 5	2 1 1	2 2 2 2	5 3 2	5 3 2

Causes deatl				infection beutane				uses of s				04 ohigus		Eryt		ous cond	litions
		N	A.	1	7	N	1	3	F	1	N	1	F	2	M	3	?
Ages deatl		6th Rev.	7th Rev.	6th Rev.	7th Rev.	6th Rev.	7th Rev.	6th Rev.	7th Rev.	6th Rev.	7th Rev.	6th Rev.	7th Rev.	6th Rev.	7th Rev.	6th Rev.	7th Rev.
ages		6	5	5	5	65	62	91	92	12	12	19	20	17	16	10	11
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Table 2-	commue												
Causes of death	Other hyp	710 ertrophic and conditions of skin	Ch	71: ronic ulc		cin	Dis	720- eases of	the Bo	nes		itis and	-727 I rheumat imatic fev
	26								1 ,				
Ages at death	M 6th 7th Rev. Rev	6th 7th Rev. Rev.	6th	7th Rev.	6th Rev.	7th Rev.	6th Rev.	7th Rev.	6th Rev.	7th Rev.	6th Rev.	7th Rev.	6th Rev. I
All ages	11 1			13	33	33	300	298	591	589	156	157	460
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45	2 3 2		1 _	_		_	9 15	9 14	7	7	4 9	4	4 17
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65 70	_1 _	1 3°	$\begin{bmatrix} 3 \\ 2 \end{bmatrix}$			7	35 38	35 38	72 86	73 86	22 28	22 28	58 74
75 80 85 and over	<u> </u>	1 1 2 -	1 1 5 5 5	1 5 4	5 4 16	5 4 16	45 39 14	46 39 14	115 111 63	114 110 63	25 23 11	25 23 11	94 91 54
Causes of		722		7	23			7	25			740	-749
death		oid arthritis a l conditions		eo-arthri nd allied	tis (artl condit	nrosis) ions		Artl unsp	hritis, ecified				iseases of eletal syst
Ages at	М	F		М		F		М		F	1	M	F
death	6th 7t Rev. Re		th 6th Rev. Rev		6th Rev.	7th Rev.	6th Rev.	7th Rev.	6th Rev.	7th Rev.	6th Rev.	7th Rev.	6th Rev. I
All ages	91	92 346 3	45 5	3 53	101	102	-	_	2	3	62	59	52
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10			_ _		=	_	=	=	_		4	4	1
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75 80 85 and over	1 0	16 66 9 67 3 31	66 1	9 9 13 13 8 8	27 22 23	27 22 24	-		11	_1	3	3	5 2

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Causes of death		74	15			750-				7:	50				751	
	Cı	ırvatur	of spir	ne .		Cong Malfori	enital mations			Mons	trosity				oifida ai ngocele	
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Ages at death	6th Rev.	7th Rev.	6th Rev.	7th Rev.	6th Rev.	7th Rev.	6th Rev.	7th Rev.	6th Rev.	7th Rev.	6th Rev.	7th Rev.	6th Rev.	7th Rev.	6th Rev.	7th Rev.
l ages	9	6	17	14	1262	1264	1189	1192	29	29	51	52	215	167	287	229
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	1				1											
C C		7	52			75	53			75	4			7	55	
Causes of death			genital ephalus	•	m	alform	ongenita ations o ystem a organs	of	m cii	Conge alformat culator	ations c	of m		Cleft and h	palate arelip	
Ages at		M		F	N	vI	′ 1	F	° N	1	I	3	N	Л	F	?
death	6th Rev.	7th Rev.	6th Rev.	7th Rev.	6th Rev.	7th Rev.	6th Rev.	7th Rev.	6th Rev.	7th Rev.	6th Rev.	7th Rev.	6th Rev.	7th Rev.	6th Rev.	7th Rev.
ages	56	104	47	101	42	43	42	46	514	513	466	465	5	5	3	2
	28 21 2 —	73 24 2	35 8 -	84 13 —	18 11 5	19 11 5	23 12 1 1	27 12 1 1	325 30 20 19	325 30 20 19	270 34 17 14	268 33 17 14	1 -	4 1 —	3 	
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Table 2—continued

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Causes of death			enital ations o			Cong hypert byloric	enital rophic stenosi	s' '	, 1	Imperfo	orate an	ius	Oth	ners inc	luded in 7
	М	[1	F	N	/I		F	1	νI	1	F	1	VI.	F
Ages at death	6th Rev.	7th Rev.	6th Rev.	7th Rev.	6th Rev.	7th Rev.	6th Rev.	7th Rev.	6th Rev.	7th Rev.	6th Rev.	7th Rev.	6th Rev.	7th Rev.	6th 7 Rev. R
All ages	145	148	91	93	15	16	5	5	17	18	7	, 6	113	114	79
0 1 5	113 5 3	114 5 3	67 9 —	67 9 — 1	14	15	5	5	17 _ _	18			82 5 3	81 5 3	55 9 — 1
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	757 Congenital malformations of					757	· · 1			757 · 0,	.2, .3			. 7.	58
Causes of death	ma genit	Conge	enital	of tem	Po	1	c diseas	se		757·0,	ncluded	1		Cong	58 genital lations of nd joint
death	ma genit M	Conge alforma to-urina	enital ations o ary syst	of tem	Po	olycysti of ki	c diseas	se F		Others i	ncluded r 757	ı		Cong nalform bone a	genital nations of and joint
Causes of death Ages at death	genit M 6th	Conge alforma to-urina	enital ations o ary syst	tem		olycysti of ki	c diseas	,		Others in unde	ncluded r 757	· .		Cong nalform bone a	genital nations of nd joint
death Ages at	genit M 6th	Conge alforma to-urina	enital ations c ary syst	F 7th	N 6th	of ki	c diseas	F 7th	6th	Others in under under	ncluded r 757	F 7th	N 6th	Congnalform bone at	genital nations of and joint
Ages at death	M 6th Rev.	Conge alformatio-uring	enital ations of ary syst	7th Rev.	6th Rev.	of ki	c diseasedney	7th Rev.	6th Rev.	Others is under the work of the Rev.	ncluded r 757	7th Rev.	6th Rev.	Congnalformbone at 7th Rev.	enital actions of nd joint F 6th 7 Rev. R
Ages at death All ages 0	M 6th Rev.	Congealformato-urina The Rev. 145 57 2 9	enital ations cary syst	7th Rev.	6th Rev.	of ki	6th Rev.	7th Rev. 88	6th Rev. 78	Others in under the number of	10 6th Rev. 28 11 4 1	7th Rev. 28	6th Rev.	Congnalform bone at 7th Rev.	renital lations of and joint F 6th 7 Rev. R
Ages at death All ages 0 1 5 15	9 3 7	Congealformato-urina 7th Rev. 145 57 2 9 3 7	enital ations carry system Rev.	7th Rev. 116 16 4 1 3	6th Rev.	of ki	6th Rev.	7th Rev. 88	78 43 2 9 3	7th Rev. 76 41 2 9 3	10 6th Rev. 28 11 4 1 1 1	7th Rev. 28 11 4 1	6th Rev.	Congnalform bone at 7th Rev.	renital actions of and joint F 6th 7 Rev. R 21 14 1
Ages at death All ages 0	9 9 3 7 1 3 3 3	Conge alforma to-uring T 7th Rev. 145 57 2 9 3 7 1 3 3 3	6th Rev. 116 14 1 3 1 1 1 2 5 3	7th Rev. 116 16 4 1 3 1 1 2 5 3	68 15 —	of kinds of	6th Rev.	7th Rev. 88 5	78 43 2 9 3 7 1	7th Rev. 76 41 2 9 3 7 1	6th Rev. 28 11 4 1	7th Rev. 28 11 4 1 1	6th Rev. 14 9 1	Congnalform bone at A 7th Rev. 14 9 1	renital actions of and joint F 6th 7 Rev. R 21 14 1
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ble 2—continued

Causes of death	ma	r and u conger formati where o	nspeci nital ions n	ot	Ce	760-7 rtain D Early I	iseases	of		760- Birth in asphyx ctions o	njuries, ia, and		. 1	Intracra spinal	60 mial an injury pirth	d
Ages at	M	[1	3	N	A .	I	3	N	И		F	N	vI]	F
death	6th Rev.	7th Rev.	6th Rev.	7th Rev.	6th Rev.	7th Rev.	6th Rev.	7th Rev.	6th Rev.	7th Rev.	6th Rev.	7th Rev.	6th Rev.	7th Rev.	6th Rev.	7th Rev.
ages	96	96	65	68	2782	2784	1905	1912	1655	1628	1092	1067	435	420	280	276
	64 4 3	4 5 3 3				2780 4 —	1903	1910	1654 1 —	1627	1092	1067	435 —	420	280	276 —
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and over	=	_	MANAGE MANAGE	_	_	_	_		=	_	=	_	_	=	=	_
		7	61			7	62			70	63			7	54	
Causes of death		Other bi		ury	P	ostnatal		xia s	Pneı	ımonia		born	Dia		of new	born
Accept		M		F		M		F	1	Μ		F	1	M		F
Ages at death	6th Rev.	7th Rev.	6th Rev	7th Rev.	6th Rev.	7th Rev.	6th Rev.	7th Rev.	6th Rev.	7th Rev.	6th Rev.	7th Rev.	6th Rev.	7th Rev.	6th Rev.	7th Rev.
ages .	Rev. Rev. Rev. Rev. Rev. Rev. Rev. Rev.				833	805	545	517	217	223	146	146	7	8	3	3
	118 118 73				832 1	804 1 —	545	517	217	223	146	146 —		8	3	3
	-	_	-	-	_	_	_	_	_	_	_		_		_	_
	-	_	_		_		_	_	_		_	_	_		_	
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and over

Note: The group 760-776 relates particularly to the causes of death within the first 28 days of life, but it includes also some deaths from the causes specified at all ages.

Causes of death	Pemj	76 phigus 1	neonato	rum	Other	76 r sepsis	of new	born	disea	onatal sing fro ases of aring pr	disorde m certa the mo	ain ther	Oth	770 er disea to early	-776 ases peo	culis
	N	1	F	3		1	F	7	N	A .]	F	N	vI]	F
Ages at death	6th Rev.	7th Rev.	6th Rev.	7th Rev.	6th Rev.	7th Rev.	6th Rev.	7th Rev.	6th Rev.	7th Rev.	6th Rev.	7th Rev.	6th Rev.	7th Rev.	6th Rev.	7 Re
All ages	2	3	2	2	3	8	6	12	34	37	31	31	1127	1156	813	8
0 1 5 10		3	_ _ _	_ _ _	3 = =	8		12 	34 	37 — —	31 — —	31 	1124 3 —	1153 3 —	811 2 —	8
15 20	=	=	_	=	_	=	_	_			_		=	=	_	-
25 30 35 40		=	=		=		=	=					=	=	=	1111
45 50 55 60	=		=		=		=	=	=		=	=		=	=	1 1 1 1
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75		_	_	_	_	_	_	_	_	_	_	_	=	=	=	-
80 85 and over	_		_					MATTER STATE OF THE PARTY OF TH		_	_					_
80	=	-	_	-												
80		77	0	-		77	1			77	3			7	74	
80		emolyt of new	ic disea		Hae		gic dise	ease		77 -defined	1 diseas			aturity '	with m	
85 and over Causes of death		emolyt of new rythrob	ic disea	s)		morrha	gic dise			-defined	diseas		sul	aturity of any	with me other condit	
85 and over Causes of	(e	emolyt of new rythrob	ic disea vborn plastosis	s)		morrha of nev	gic dise		pecul	-defined	diseas	fancy	sul	aturity of any bsidiary	with me other condit	ion
Causes of death Ages at	(e N 6th	emolyt of new rythrob	ic disea vborn plastosis	7th Rev.	N 6th	morrha of nev	gic dise	7th	pecul N 6th	-defined iar to e	diseas arly in	F 7th	sul N 6th	aturity of any bsidiary	with moved of the conditions o	ion
Causes of death Ages at death All ages	6th Rev.	emolyt of new rythrob 1 7th Rev.	ic disea vborn plastosis F 6th Rev.	7th Rev.	6th Rev.	of new 7th Rev.	gic dise vborn	7th Rev.	pecul N 6th Rev.	7th Rev.	disease arly in 6th Rev.	7th Rev. 68	Sul M 6th Rev.	aturity of any bsidiary 7th Rev.	with mey other condit	ion
Causes of death Ages at death All ages 0	6th Rev. 84	of new rythrob 7th Rev. 84	ic disea vborn plastosis fth Rev.	7th Rev.	6th Rev.	M 7th Rev.	gic dise yborn I 6th Rev.	7th Rev.	M 6th Rev.	-defined iar to e	disease arly interest of the Rev.	7th Rev.	Sul 6th Rev. 41	aturity of any bidiary 7th Rev.	with my other condit	70 Re
Ages at death All ages 0	6th Rev. 84	of new rythrob 7th Rev. 84	ic disea vborn plastosis fth Rev.	7th Rev.	6th Rev.	M 7th Rev.	gic dise yborn I 6th Rev.	7th Rev.	M 6th Rev.	7th Rev.	disease arly interest of the Rev.	7th Rev. 68	Sul 6th Rev. 41	aturity of any bidiary 7th Rev.	with my other condit	70 Re
Ages at death All ages 1 20 25 30 35	6th Rev. 84	of new rythrob 7th Rev. 84	ic disea vborn plastosis fth Rev.	7th Rev.	6th Rev.	M 7th Rev.	gic dise yborn I 6th Rev.	7th Rev.	M 6th Rev.	7th Rev.	disease arly interest of the Rev.	7th Rev. 68	Sul 6th Rev. 41	aturity of any bidiary 7th Rev.	with my other condit	70 Re
All ages 15 20 25 30 31 40 45 85 and over	6th Rev. 84	of new rythrob 7th Rev. 84	ic disea vborn plastosis fth Rev.	7th Rev. 90 888 2	6th Rev.	M 7th Rev.	gic dise yborn I 6th Rev.	7th Rev. 35 35	M 6th Rev.	7th Rev.	disease arly interest of the Rev.	7th Rev. 68 — — — — — — — — — — — — — — — — — —	Sul 6th Rev. 41	aturity of any bidiary 7th Rev.	with my other condit	70 Re
Ages at death All ages 0	6th Rev. 84	of new rythrob 7th Rev. 84	ic disea vborn plastosis fth Rev.	7th Rev. 90 888 2	6th Rev.	M 7th Rev.	gic dise yborn I 6th Rev.	7th Rev. 35 35	M 6th Rev.	7th Rev.	disease arly interest of the Rev.	7th Rev. 68 — — — — — — — — — — — — — — — — — —	Sul 6th Rev. 41	aturity of any bidiary 7th Rev.	with my other condit	70 Re
Ages at death Ages at death All ages 1 20 25 30 40 45 50 50 55	6th Rev. 84	of new rythrob 7th Rev. 84	ic disea vborn plastosis fth Rev.	7th Rev. 90 888 2	6th Rev.	7th Rev. 56	gic dise yborn I 6th Rev.	7th Rev. 35 35	M 6th Rev.	7th Rev.	disease arly interest of the Rev.	7th Rev. 68 68	Sul 6th Rev. 41	aturity of any bidiary 7th Rev.	with my other condit	70 Re

Table 2—continued

Transport Tran	table 2—	Onun	uea														
Ages at death 6th 7th 6th 7th 7th 6th 7th			Immat	urity		Syr	780- mptoms and Ill-	795 , Senilit defined	у,		ptoms r	eferabl		ca	iptoms irdiovas	referabl	nd
Ages at death Geth 7th Rev.		M	[F	7	N	1	I		N	A	I	7	, n	A.	F	
0 900 900 623 621 11 10 7 6 4 4 4														6th	7th	6th	7th
1	All ages	900	900	623	621	1303	1441	2370	2587	34	64	32	77	23	52	23	66
5		900	900	623	621	11	10	_7	6	_4	4	_	-1	_	_	_	
S	5	=	_		_	_1	_1	_		_1	_1	_	=	_	_		
The second color of the		=	_		=	3	3	_	_1		_	_		=	_	_	_
The second color of the	80	=	_	Ξ	=	1 2	1 2 2			=			=	=	_	=	_
Solution Solution		_	-	=	-				1			1	1	-			
The second color of the	55	_	=	=		8	_8	6	7 4 5		_		. 3		_4	2	1 2 1 2
The second color of the	55		_		_	10	12	6	7		4			1		_	
Acute heart failure, undefined Symptoms referable to respiratory system Symptoms referable to upper gastro-intestinal tract Cither general symptoms	75 30					189 427	211 469	300 639	333 694	4	6 16	7 9 3	16 25		5 15	5 5 2	13 21
Ages at death 6th 7th Rev. Rev. Rev. Rev. Rev. Rev. Rev. Rev.		1				7			1433								
death 6th 7th Rev. Rev. Rev. Rev. Rev. Rev. Rev. Rev.		A	cute he	art fail	ure,	Syn	nptoms	783	le to	Sym	78	referabl	le to		7 Other	88 general	
0	death		cute he und	art fail		Syn	nptoms espirato	referab	de to	Sym	78 aptoms: er gastr tra	referable o-intest	le to tinal		Other sym	general ptoms	
1 <td< th=""><th>death Ages at</th><th>6th</th><th>cute he und</th><th>art fail efined</th><th>F 7th</th><th>Syn ro</th><th>nptoms espirato</th><th>referabory syste</th><th>ele to em</th><th>Sym upp</th><th>78 sptoms : er gastr tra</th><th>referable co-intestact</th><th>le to tinal</th><th>6th</th><th>Other sym</th><th>general ptoms</th><th>F 7th</th></td<>	death Ages at	6th	cute he und	art fail efined	F 7th	Syn ro	nptoms espirato	referabory syste	ele to em	Sym upp	78 sptoms : er gastr tra	referable co-intestact	le to tinal	6th	Other sym	general ptoms	F 7th
15	Ages at death	6th Rev.	M 7th Rev.	art fail efined	F 7th Rev.	Syn ro	nptoms espirato M 7th Rev.	referabory syste	ele to em	Sym upp	78 aptoms : er gastr tra 7th Rev.	referable co-intestant	le to tinal F 7th Rev.	6th Rev.	Other sym	general ptoms 6th Rev.	F 7th Rev.
$\begin{array}{cccccccccccccccccccccccccccccccccccc$	Ages at death All ages 0 1	6th Rev.	M 7th Rev.	art fail efined	F 7th Rev.	Syn for 6th Rev.	mptoms espirato	referabory syste	F 7th Rev.	Sym upp	78 aptoms : er gastr tra 7th Rev.	referable co-intestant	le to tinal F 7th Rev.	6th Rev.	Other sym	general ptoms 6th Rev.	F 7th Rev.
$\begin{array}{cccccccccccccccccccccccccccccccccccc$	Ages at death All ages 0 1 10 15	6th Rev.	M 7th Rev.	art fail efined	F 7th Rev.	Syn for 6th Rev.	mptoms espirato	referabory syste	F 7th Rev.	Sym upp	78 aptoms : er gastr tra 7th Rev.	referable co-intestant	le to tinal F 7th Rev.	6th Rev.	Other sym	general ptoms 6th Rev.	F 7th Rev.
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65 2 - 1 1 1	Ages at death All ages 1	6th Rev.	M 7th Rev. 48	art fail efined	F 7th. Rev.	Syn for 6th Rev.	mptoms espirato	referabory syste	F 7th Rev.	Sym upp	78 nptoms : er gastr tra 7th Rev.	referable co-intestant	le to tinal F 7th Rev.	6th Rev.	Other sym	general ptoms 6th Rev.	F 7th Rev.
75 2 4 5 13 1 1 1 2 2 1 1 1 2 2 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3	Ages at death All ages 1	6th Rev.	M 7th Rev. 48	art fail efined 6th Rev.	F 7th Rev.	Syn re	7 7th Rev. 1	783 referabory system 6th Rev.	F 7th Rev.	Sym upp 6th Rev. 4	78 gastr tree tree tree tree tree tree tree t	ferenable of the second of the	F 7th Rev.	6th Rev.	7th Rev.	general of the Rev.	7th Rev.
	Ages at death All ages 1	6th Rev. 19	7th Rev.	art fail	F 7th Rev. 2 65	Syn r. Geth Rev.	7 7th Rev. 1	783 referabory system 6th Rev.	F 7th Rev.	Sym upp 6th Rev. 4	78 gastr tree tree tree tree tree tree tree t	referable formula from the second sec	F 7th Rev.	6th Rev.	7th Rev.	general of the Rev.	7th Rev.

Table 2	Oittiit															
Causes of death	ill-	Senilit	-795 ty and 1 diseas	es		Urae		en : ,			withou f psycho			Ill-defi	95 ned and on cause ortality	
	N	1]	F	1	⁄I		F	N	1)	F	M 6th 7th Rev. Rev.]	F
Ages at death	6th Rev.	7th Rev.	6th Rev.	7th Rev.	6th Rev.	7th Rev.	6th Rev.	7th Rev.	6th Rev.	7th Rev.	6th Rev.	7th Rev.			6th Rev.	7tl Re
All ages	1269	1377	2338	2510	7	8	8	7	1238	1344	2313	2483	24	25	17	2
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65 70	- 8 58	63	6 76	6 80	. 1	1 1	-1		5 56	5 - 61	6 72	6 76	2	2	3	-
75	185 419 579	205 453 627	293 630 1315	317 669 1418	1 1 1	1 2 1	<u>1</u> 2	1	183 417 577	203 450 625	291 630 1313	315 668 1417	1 1 1	1 1 1	_1	-

			x	v II			RA	ILWA	Y AC	CIDE	NTS			TRA	TOR FFIC	VEHI	CLE
Causes death		·;.	E800-	-E999			E800-	-E802			E8	00			E810	-E825	
			and V	Poisonii iolence il Cause		R	ailway	acciden	its	in	volving empl	railros loyee	ıd .		Motor traffic a	vehicle	
		M F				N	⁄I]	F	N	/I	1	F	1	νſ]	F
Ages a death		MI F				6th Rev.	7th Rev.	6th Rev.	7th Rev.	6th Rev.	7th Rev.	6th Rev.	7th Rev.	6th Rev.	7th Rev.	6th Rev.	7th Rev.
All ages		Rev. Rev. Rev. Rev. 6573 6560 4336 4319				130	126	8	8	69	65		_	2059	2056	733	733
0 1 5 10	• • • • • • • • • • • • • • • • • • • •	Rev. Rev. Rev. Rev.		4 1 4	 4 1 4	- ₁	-1 -1			_		2 49 69 62	2 49 68 61	2 33 35 23	34 35 23		
15 20	• • •	368 492	368 492	59 78	58 78	7 4	6 4			_2	_2	_		221 318	222 318	36 45	36 45
25 30 35 40		361 318 347 378	361 318 347 378	76 85 111 117	74 85 111 117	5 11 11 13	5 11 11 13	1 1	_1 _	3 8 6 7	3 7 6 7		: = .	165 111 105 110	165 111 105 110	22 24 22 23	22 23 22 23
45 50 55		449 478 484 486	449 477 484 483	179 252 288 283	179 250 288 283	9 13 17 16	12 16 16	1 1	1 1.	5 10 13 11	4 9 12 11	-		115 104 107 110	115 103 107 110	37 35 55 61	37 35 55 61
65 70		402 417	402 414	321 424	318 423	4 5	4 5		₁	3	3 1	_	:. =	99 103	99 103	64 68	64 68
75 80 85 and ov	er	418 330 247	418 329 245	537 556 627	537 553 627	4 2	4 2 —	- 1 1	- 1 1			=	=	101 73 35	100 73 35	83 46 19	83 46 19

		MOTOR VEHICLE TRAFFIC ACCIDENTS E812 E813 E815 E816 to rider or passenger Other motor vehicle														
Causes of		E	12			E8	13			E8	15		1	E	316	
death		to ped	estrian		1	o peda	l cyclist		i	of mot	passen corcycle ion with or vehice	1	i	traffic a	tor vehicles two cor vehicles	t
Ages at	N	1 .	1	F)	N	A.]	F I	I	vI.)	F	I	1	I	F
death	6th Rev.	7th Rev.	6th Rev.	7th Rev.	6th Rev.	7th Rev.	6th Rev.	7th Rev.	6th Rev.	7th Rev.	6th Rev.	7th Rev.	6th Rev.	7th Rev.	6th Rev.	7th Rev.
Il ages	634	632	419	419	254	253	44	43	432	433	40	40	240	238	129	130
0 1 5	38 54 19	38 53 18	26 28 9	26 28 9	2 9 34	2 9 34	_ _ 2 9		1 1 1	1 1 1			1 5 4 4	1 5 4 4	2 4 3 1	2 5 3 1
5 0	13 12	13 12	- 1 7	1 7	28 12	28 12	5 3	5	91 132	91 132	6 9	6	10 31	10 31	11 15	11 15
5- · · · · · · · · · · · · · · · · · · ·	11 15 12 15	11 15 12 15	3 4 6 8	3 4 6 8	10 9 8 12	10 9 8 12	3 4 4 3	3 3 4 3	66 26 26 27	66 26 26 28	2 4 4 3	2 4 4 3	26 21 22 24	25 21 22 23	6 8 2 6	. 6 8 2 6
5- ·· ·· ·· ·· ·· ·· ·· ·· ·· ·· ·· ·· ··	20 29 41 44	20 29 41 45	12 13 27 40	12 13 27 40	18 18 28 20	18 17 28 20	3 1 5 2	3 1 5 2	26 14 11 6	26 14 11 6	4 2 - 3	4 2 - 3	21 24 13 15	21 24 13 14	11 10 18 8	11 10 18 8
5	63 72	63 72	46 62	46 62	20 13	20 13			3	3			5 5	5	13	13 3
5 0 5 and over	82 60 34	81 60 34	67 42 18	67 42 18	9 4 —	9	=				_	=	7 2 —	7 2	5 3 —	5 3

			мот	OR V	EHIC	LE TI	RAFF	IC A	CCID	ENTS				
Causes of	E8	320		E8	22			E8	23				324	
death		oarding ghting	invo	olving o in roa	verturn dway	ing	in	volving off roa	runnin adway	g	0	motor traffic	vehicle	,
	М	F	V	1	J	3	N	A.	1	F	ı	vI	I	F
Ages at death	6th 7th Rev. Rev.	6th 7th Rev. Rev.	6th Rev.	7th Rev.	6th Rev.	7th Rev.	6th Rev.	7th Rev.	6th Rev.	7th Rev.	6th Rev.	7th Rev.	6th Rev.	7th Rev.
dl ages	14 14	5 7	27	. 26	10	11	142	143	38	37	32	31	17	15
0 1 5		entrante conseque entrante appoint			_		-3 -1	-3 -1	1 	_1	 1 2	1 2	1	
0 5 0	17 1	directions straining	3 7	3 7	1	2	18 30	18 30	5 7	4 7		3.		=
5 0 5	= =		5 1 2 4	- 2 4	= _1	-1	10 14 14 10	. 11 15 14 10	3 3 3 1	3 3 3 1	4 2 1 3	3 2 1 3	2 	-1 -1
5 0 5	$ \begin{array}{cccccccccccccccccccccccccccccccccccc$		1 1 3	- 1 3		2 2	7 7 9 10	7 7 9 10	1 4 1 3	1 1 1 3	1 1 1 3	1 1 1 3	2 2 — 3	$-\frac{2}{3}$
5 0	$\frac{1}{3}$ $\frac{1}{3}$		_	_	_1	_1	4 4	4 3	1 2	1 2	1 3	1 3	_1	_1
5 0 5 and over	2 2 1 1 1 1	$-\frac{4}{1}$ $-\frac{4}{1}$	= 1		1	_1	_1	_1	1 -	2 1	1 5	1 5	4	

MOTOR VEHICLE NON-TRAFFIC ACCIDENTS

M.V. TRAFFIC

	M	M.V. TRAFFIC ACCIDENTS				MO	-	1				1				
Causes of death		E825				E830-	E835			E8:	30			E8	31	
	of u	nspecifi	ed natı	ure		Motor v -traffic		ıts		to pede	estrian			to peda	l cyclis	t
	M	1	I	3	M	1	F	,	N	1	I	3	N	1	I	7
Ages at death	6th Rev.	7th Rev.	6th Rev.	7th Rev.	6th Rev.	7th Rev.	6th Rev.	7th Rev.	6th Rev.	7th Rev.	6th Rev.	7th Rev.	6th Rev.	7th Rev.	6th Rev.	7tl Re
All ages	9	11	9	9	37	41	4	4	25	26	4	4	1	2	_	
0 1	=	_	_		3	3	_ 1 1	1	_2	_2	- 1	1 1	_1	_1		
5	_	_	1	_		_	1	1	=	_	î	î	-	-	-	-
15 20	2	3 1	1	1 1	3 6	3 7		_			_	_	_	_	_	_
25 30 35	1 2	2 2	-1 1	-1 1	2 2	2 2		=,	1 2	1 2	=		_		_	-
35	_	_	1		3	3		-'	3	3			-	_	_	
45 50 55	_1	_1	$-\frac{1}{1}$	1 1	$-\frac{2}{4}$	2 1 4		_	$-\frac{2}{3}$	$-\frac{2}{3}$	_	_	_	_1	_	
60	=		_	-	5	4 5	_	_	5 2	5				_		_
65 70	1	1	1	1	3 3	3 4	_	_	2	2 2	_	_	_	_		I
75 80 85 and over	=		_	=	1 _1	2	_	_	1	2	=	_	_	_		_
05 44.0 0.0					1				<u> </u>						-	
	M.V. NON-TRAFFIC															
	M.V	. NON	I-TRAI	FFIC		E840-	E845			E	343			E850	⊢E858	
Causes of death	M.V	. NON ACCII	DENTS	FFIC					A	cciden	t to ride	er ot				rt
Causes of death		ACCII	35 er and		v	E840- Other ehicle a	road	s	in	ccident f pedal tvolving		ot		Water 1		rt
Causes of death	u	E8 of other	35 er and ed natu			Other	road	s	oi in w:	ccident f pedal tvolving	t to ride cycle n collisio or vehice	ot		Water 1	transpo cidents	rt
Causes of death Ages at death	u	E8 of otherspecific	35 er and ed natu	F 7th		Other ehicle a	road		oi in w:	accident f pedal tvolving ith mot	t to ride cycle n collisio or vehice	ot on cle		Water (transpo cidents	
death Ages at	ui 6th	E8 of otherspecific	35 er and ed natu	F 7th	6th	Other ehicle a	road ccident	F 7th	or in wi	Accident f pedal volving ith mot	t to ride cycle n collisio or vehice	ot on cle F	6th	Water to accommod	franspoolidents 6th Rev.	F 7t
Ages at death All ages 0 1	out of the Rev.	E8 of otherspecific M 7th Rev. 8	35 er and ed natu	F 7th Rev.	6th Rev. 82	Other ehicle a	road ceident	7th Rev.	6th Rev.	M 7th Rev.	t to ride cycle no collision vehice or vehice of the Rev.	ot on cle F 7th Rev.	6th Rev. 81	Water 1 acc	aranspo cidents 6th Rev.	F 7t
Ages at death All ages 0	6th Rev.	of othnspecific M 7th Rev. 8	35 er and ed natu	F 7th	6th Rev. 82 — 1 1 6	Other ehicle a 7th Rev. 83 -1 1 7	6th Rev.	7th Rev. 25	6th Rev. 63 6	M 7th Rev. 64	t to ride cycle no collision vehice or vehice of the Rev.	ot on cile F 7th Rev. 10	6th Rev. 81 - 1 2 3	Water 1 acc	6th Rev.	F 7t
Ages at death All ages 0	out of the Rev.	E8 of otherspecific M 7th Rev. 8	35 er and ed natu	F 7th Rev.	6th Rev. 82	Other ehicle a	6th Rev.	7th Rev. 25	6th Rev. 63	Accident f pedal vivolving ith mot M 7th Rev. 64	6th Rev.	ot on cie	6th Rev. 81 - 1 2 3 15 8	Water 1 acc	franspoolidents 6th Rev.	F 7t
Ages at death All ages 0	6th Rev.	of othnspecific M 7th Rev. 8	35 er and ed natu	F 7th Rev.	82 — 1 1 6 6 10 2 6 1 1 1 6 6	7th Rev. 83 1 1 2 6 1	6th Rev.	7th Rev. 25 — 1	6th Rev. 63	Accident f pedal f ped	6th Rev.	ot on cle F 7th Rev.	6th Rev. 81 -1233 158 964	Water t acc	6th Rev.	F 7t
Ages at death All ages 1 10 15 20 25 36 40	6th Rev.	of othnspecific M 7th Rev. 8	35 er and ed natu	F 7th Rev.	82 	Other ehicle at 7th Rev. 83 — 1 1 7 10 2 6 6 1 2 3	6th Rev.	7th Rev. 25 ———————————————————————————————————	6th Rev. 63 1 60 10 2 61 2 3	Accident f pedal avolving the mot M 7th Rev. 64	6th Rev.	7th Rev. 10	6th Rev. 81 — 1 2 3 15 8 9 6 4 4 3	M 7th Rev. 82 - 1 2 3 15 8 9 7 4 3	6th Rev.	F 7t
Ages at death	6th Rev.	of othnspecific M 7th Rev. 8	35 er and ed natu	F 7th Rev.	82 11 66 10 2 66 11 2 3 3 4 7 7 4 4	Others 2	6th Rev. 24 — 1 1 1 3 — 1	7th Rev. 25 — 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	6th Rev. 63 -1 -6 10 2 61 23 3 46	M 7th Rev. 64 - 1 7 10 2 66 1 2 3 4 66	6th Rev.	7th Rev. 10	6th Rev. 81 -1 2 3 15 8 9 6 4 3 81	M 7th Rev. 82 -1 2 3 15 8 9 7 4 3 8 8 11	6th Rev.	F 7t
Ages at death All ages 0 1 10 25 35 40 45 55 60	6th Rev.	F8 of otherspecific	35 er and ed natu	F 7th Rev.	82 	Other a M 7th Rev. 833 - 10 2 6 6 1 2 2 3 3 4 4 7 4 4 6 6	6th Rev. 24 - 1 1 1 3 3 1 1 1 - 2 2 4 4	7th Rev. 25	6th Rev. 63 - 1 - 6 10 2 6 1 2 3 3 4 4	7th Rev. 64 -1 -7 10 2 66 11 2 2 3 4 6 6 2 2 3 7	6th Rev.	7th Rev. 10	6th Rev. 81 - 1 2 3 15 8 9 6 4 3 8	Water 1 acc	6th Rev.	F 7t
Ages at death All ages 0 1 5 10 25 35 45 55	6th Rev.	of othnspecific M 7th Rev. 8	35 er and ed natu	F 7th Rev.	82 11 66 10 2 66 11 2 3 3 4 7 7 4 4	Others and the series of the s	6th Rev. 24	7th Rev. 25	6th Rev. 63 -1 -6 10 2 66 11 2 3 4 62 3	Cocident f pedal from the pedal from	t to ridde cycle n collisis or vehicle cycle n collisis or vehicle cycle n cyc	7th Rev. 10	6th Rev. 81 12 23 315 8 96 64 33 88 11 11 22	M 7th Rev. 82 -1 2 3 15 8 9 7 4 3 8 11 1 3 2	6th Rev.	F 7t

Causes of death		E850 Submersion of occupant of small boat					or transpubmers			E8	ed acci		A		-E866 acciden	nts
Ages at	N	1 .]	 F	1	vI	1	3	N]	F	N	Л]	F
death	6th Rev.	7th Rev.	6th Rev.	7th Rev.	6th Rev.	Rev. Rev. Rev. Rev			6th Rev.	7th Rev.	6th Rev.	7th Rev.	6th Rev.	7th Rev.	6th Rev.	7th Rev.
ll ages	36	37	3	, 3	21	20		-	8	9	. 1	1	38	39	1	1
0 1 5 0	1 2 3	1 2 3	_	=	=				=	=	=	1				
5	12	12	1	1	3 4	3 4	_	_	_ ₁	_1		_	7	7	_1	_1
5 0 5	2	4 1 2 1	=	1 	4 -	4 3 —			_ ₁				8 10 10 2	8 11 10 2		
5 0 5	-6 -1		=	=	3 1 1	3 1 1			1 1 - 1	$-\frac{1}{1}$		=	_ _ _	_1 _	=	=
5 0	_1	_1	_	_	_1	_1	=	=	_3	3	=	=	=			=
5 0 5 and over	=	Ξ	=	=		Ξ			=	=	_	=	=	=		_
								ACC	IDEN	TAL	POISO	ONING	G			
Causes of		E8	66			E870-	-E888			E8	74			E	878	
death	Othe ai	er and a	unspeci	fied	Acc by	solid a subst	poison ind liqu ances	ing id	, b ₃	other and so dru	porific	ic ·	u		ner and led dru	gs
. Ages at	N]	F	N	и	1	3	N	ν Ι	1	F .	N	<u> </u>	I	F
death	6th Rev.	7th Rev.	6th Rev.	7th Rev.	6th Rev.	7th Rev.	6th Rev.	7th Rev.	6th Rev.	7th Rev.	6th Rev.	7th Rev.	6th Rev.	7th Rev.	6th Rev.	7th Rev.
ll ages	2	. 3	an-maint)	Manufall	76	75	93	93	3	3	6	7	10	9	3	2
0 1 5 0	=	=			1 5 -	1 5 -1	2 3 1	2 3 1		_	= 1	1	-1 -1	_ ₁	=	_1
5- :: :: 0- :: ::	_	_	_	<i>₹</i> =	3 1	3 1	h 1	1 1		_	=	_		=		******
5 0 5	- ₁				1 5 3 7	1 4 3 7	3 3 7 7	3 7 7	=	=_1		_ _ _ 3	_ ₁	=	=	1
5 5 5	=	=			7 11 6 7 8 7	7 11 6 7 8 7 2	10 15 8 10	10 15 8 10			- 1		- ₁	-1 -1		
					0	8			-				1 3	1		-
5 0					7	7	10 6 3 2	10 6		_		-	3	1 3 -		

Table 2—continued

Table 2—c			ACC	IDEN	TAL	POIS	ONIN	G								Ī
Causes of death		E890-				E8				E900-					900	
			poison d vapo		(il	by ut lumina	tility ting) ga	s	<i>*</i>	Acciden	tal falls			ran o	n stairs	
A con at	N	1	I	7	N	1	I		N	AI .]	3	N	vī.	F	
Ages at death	6th Rev.	7th Rev.	6th Rev.	7th Rev.	6th Rev.	7th Rev.	6th Rev.	7th Rev.	6th Rev.	7th Rev.	6th Rev.	7th Rev.	6th Rev.	7th Rev.	6th Rev.	F
All ages	163	163	220	219	133	133	213	212	979	977	1612	1611	166	167	279	
0 1 5 10	=		1	1 -	=_1	_ _ 1			7 15 9 17	7 15 9 16	11 5 3	11 5 3	-3 -1	-3 -1	1	
15 20	3 5	3 5	1 2	. 1 2	1 4	14	1 2	1 2	14 14	14 14		_1	1.	1	_ ₁	
25	4 3 3 11	4 3 3 11	3 1 5 2	3 1 5 2	3 1 1 6	3 1 1 6	3 1 5 1	3 1 5 1	20 18 27 20	20 17 27 21	.: 1 1 4 3	1 1 4 3	2 5 6 3	3 5 6 3	_ 1 1	
45 50 55	14 13 8 12	14 13 8 12	14 8 15 16	14 8 15 16	10 11 5 9	10 11 5 9	13 7 15 15	13 7 15 15	41 40 42 55	41 41 42 54	12 12 22 35	12 12 22 35	10 9 9 12	10 9 9 12	-4 7 8	
65 70	17 10	17 10	18 26	18 26	16 9	16 9	17 25	17 25	62 112	62 112	73 180	73 179	12 24	12 24	19 46	
75 80 85 and over	21 26 12	21 26 12	37 41 30	36 41 30	19 25 12	19 25 12	37 41 30	36 41 30	143 168 155	142 168 155	319 403 523	318 404 523	30 16 22	30 16 22	70 57 64	
	1				!		1								1	
									1							
Causes of		E 9	02			E9	03			E9	04			E910	⊢E936	
Causes of death		ner falls	o2 from canother		Fa		03 ame lev	el	τ	E9 Jnspeci		S			-E936	s
death		ner falls	s from canother								fied fall	s F				
Causes of death Ages at death	10	ner falls	s from canother	r 		all on s	ame lev			Jnspeci	fied fall			Other a	accidents	
death Ages at	N 6th	ner falls evel to	s from canother	7th	of th	all on s	ame lev	7th	6th	Jnspeci M 7th	fied fall	F 7th	6th	Other a	F 6th Rev.	
Ages at death	M 6th Rev.	7th Rev.	6th Rev.	7th Rev.	6th Rev.	A 7th Rev.	ame lev	7th Rev.	6th Rev.	Jnspeci	fied fall	7th Rev.	6th Rev.	Other a	F 6th Rev.	
Ages at death All ages 0	6th Rev. 250 6 10 8	7th Rev.	6th Rev.	7th Rev.	6th Rev.	7th Rev.	6th Rev.	7th Rev. 595	6th Rev. 240	7th Rev. 239	6th Rev. 612	7th Rev. 613	6th Rev. 1223 126 67 49	Other : 7th Rev. 1219 124 66 50	6th Rev. 552	
Ages at death All ages 0 5 15	6th Rev. 250 6 10 8 14 12	7th Rev. 248 6 10 8 13	6th Rev.	7th Rev.	6th Rev.	7th Rev.	6th Rev.	7th Rev. 595	6th Rev. 240	7th Rev.	6th Rev. 612	7th Rev. 613	1223 126 67 49 65	Other a 7th Rev. 1219 124 66 50 66	F 6th Rev. 552 106 52 24 10 7	
Ages at death All ages 0 5 10 25 30 35 45	6th Rev. 250 6 10 8 14 12 11 14 12 16	7th Rev. 248 60 10 8 13 12 11 14 11 16	6th Rev. 119 2 8 3 2 1 - 2	7th Rev. 118 2 8 3 2	283 — 1 — — 1 1 — 1	7th Rev. 283 — 1 — 1 1	6th Rev. 599	7th Rev. 595 1 1 1 1	240 1 1 1 2 2 - 1	7th Rev. 239	6th Rev. 612 1 1 1 1 1	7th Rev. 613	1223 126 67 49 65 67 85	Other : 7th Rev. 1219 124 66 50 66 67 84 64 70 72	F 6th Rev. 552 106 522 24 10 7 7 9 13	
Ages at death All ages 0	6th Rev. 250 6 10 8 8 14 12 11 14 12 16 10 15 19 14	7th Rev. 248 6 10 13 12 11 14 11 15 20 14	6th Rev. 119 2 8 3 2 2 - 1 1 2 1	7th Rev. 118 2 8 3 2 - 1 - 1 2 1	283 — 1 — 1 1 — 3 8 3 7 7	283 — 1 — 1 1 1 3 8 3 7 7 3 7 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	599 1 1 1 1 2 5 3 3	7th Rev. 595 1 1 1 1 1 1 1 2 5 3	240 1 1 1 2 2 - 1 2 2 7 4 7 7	7th Rev. 239 1 1 2 2 - 1 2 7 4 7	6th Rev. 612 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	7th Rev. 613 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	1223 126 67 49 65 67 85 64 71 72 77 79 86	Other a 7th Rev. 1219 124 66 50 66 67 84 64 70 72 76 79 85 77	552 106 52 24 10 7 7 7 9 13 16	

Causes of		E911 Accident caused				E9	12			E9	16			E9		,
death	A	ccident by ve				ccident by mac	t caused hinery		by fir	e and e	t caused explosion e mater	n of	by	hot su orrosiv	t cause ubstanc e liquid steam	e,
	M	í	F	7	N	1	F	7	IM	1	F	7	M	[F	3
Ages at death	6th Rev.	7th Rev.	6th Rev.	7th Rev.	6th Rev.	7th Rev.	6th Rev.	7th Rev.	6th Rev.	7th Rev.	6th Rev.	7th Rev.	6th Rev.	7th Rev.	6th Rev.	7th Rev.
ll ages	35	36	-	_	118	113	3	3	117	117	180	179	22	24	. 25	25
: : : :	=	=	=	= =					- 6 · 4 1	6 4 1	2 20 12 2	19 12 2	1 9 —	9 -	_4 _	4
5- :: ::	3	3		-	4 12	3 11	_	-	4 5	4 5	3 3	3	i	1		. ,
5	3 3 3	3 3		_	8 14 8 9	8 13 9 8		=	2 5 6 8	2 5 6 8	1 3 2 3	1 3 2 3	2 1 1 1	2 1 1 1	_1 1	_1 _
5	5 3 7 5	5 3 7 6			15 13 8 16	15 14 8 14	1	_ _1 _	9 3 8 6	9 3 8 6	6 9 9	6 9 9 11	2 - 2	-3 -1 2	1 1 2 1	1 1 2 1
5 0	_2	2			4 3	4 2		=	7 7	7	10 18	10 18	_	_	3 2	3 2
5 0 5 and over	=	-		_	=				16 10 10	16 10 10	21 22 23	21 22 23	-1 1	_1 1	2 3 5	2 3 5
	1				1		_		1	_			1			
Course		E9	21	:		E9	22			E9	23			E	924	
Causes of death	0	ation a	21 nd inge causing r suffoo	stion	of o	ation a	nd inge ject cau or suffoo	sing	Fore	eign bo	dy ente	ring		idental iffocati	mecha on in b	
death	0	ation a of food oction o	nd inge causing r suffoo	stion	of or obstru	ation a	nd inge	sing cation		eign bo	dy ente	ring		idental iffocati and o	mechar on in b cradle	
	obstru	ation a of food oction o	nd inge causing r suffoo	stion g cation	of or obstru	ation a ther objection of	nd inge ject cau or suffoc	sing cation		eign bo other	dy ente		SU	idental iffocati and o	mechar on in b cradle	ed
death Ages at	obstru N 6th	ation a of food ction o	nd inge causing or suffor	stion cation F	of obstru	ation a ther objection of	nd inge ject cau or suffoc	sing cation	N 6th	eign bo other	dy ente orifice	F 7th	N 6th	idental affocation and of the Tank	mechanon in becradle	F 7th
Ages at death Ill ages	0 obstru	ation a of food ction of 7th Rev.	ond inger causing r sufformation of the Rev.	stion gration F 7th Rev.	of or obstru	ation a ther objection of the Rev.	nd inge ject cau or suffor	7th Rev.	6th Rev.	other 7th Rev.	dy enterorifice	7th Rev.	N 6th Rev.	7th Rev.	mechanon in boradle	F 7th Rev.
Ages at death Ill ages	6th Rev. 115 59 7 3	ation a of food etion of the Rev.	ond inger causing r sufformation of the Rev.	stion gation F 7th Rev.	6th Rev.	7th Rev.	nd inge ject cau or suffoo	7 7th Rev.	6th Rev.	other 7th Rev.	dy enterorifice	7th Rev.	6th Rev.	idental affocation and of the Rev.	mechanon in boradle I 6th Rev. 44	7th Rev.
Ages at death Ill ages 0	0bstru M 6th Rev. 115 59 7 -3 -2	ation a of food ection of the Rev. 111 57 6 3 - 2	6th Rev.	stion scation F 7th Rev. 80 33 4 2 —————	of or obstrue	ation a ther objection of the Rev.	nd inge ject cau or suffoo	7 7th Rev.	6th Rev.	7th Rev.	dy enterorifice	7th Rev.	6th Rev.	7th Rev.	mechanon in boradle I 6th Rev. 44	7th Rev.
Ages at death Ill ages 0 5 0 5 0 5 0 0	6th Rev. 115 59 7 3	ation a of food etion of the Rev.	ond inger causing r sufformation of the Rev.	stion gration F 7th Rev.	6th Rev.	7th Rev.	nd inge ject cau or suffoo	7 7th Rev.	6th Rev.	other 7th Rev.	dy enterorifice	7th Rev.	51 45 1 - 1 - 2	7th Rev.	mechanon in boradle I 6th Rev. 44	7th Rev.
Ages at death Ill ages 0 5 0 5 0 5 0 0	6th Rev. 115 59 7 -3 -2 24 23	7th Rev. 111 57 6 -3 -2 24 23	and inger causing r sufformation of the Rev.	stion 3 4 2 2 — — 3 1 2	6th Rev. 13 5 3 1 1 1 1 1	7th Rev. 10 5 3 — 1	nd inge ject causer suffoct and inge suffoct s	7th Rev. 7 2 1	3 - 2	7th Rev.	dy ente orifice 6th Rev. 3	7th Rev. 4	51 45 1 - 1 - 2	1 7th Rev. 52 466 1 1 - 1 - 2 1 - 1 - 2	mechaion in becradle	7th Rev. 43 40 3
Ages at death Ill ages 0 5 0 5 0 5 0 0	6th Rev. 115 59 7 -3 -2 24 23 36 63 55	111 57 6 - 3 - 2 2 4 4 2 2 3 5 3 3 5 5 3 5 5	and inger causing r sufformation of the Rev.	stion 3 4 2 2 — — 3 1 2	of oobstrue	7th Rev. 10 5 3 — 1	nd inge ject causer suffoct and inge suffoct s	7th Rev. 7 2 1	3 - 2	7th Rev.	dy ente orifice 6th Rev. 3	7th Rev. 4	51 45 1 - 1 - 2	1 7th Rev. 52 466 1 1 - 1 - 2 1 - 1 - 2	mechaion in becradle	7th Rev. 43 40 3
Ages at death Ill ages 0 5 0 5 0 5 0 5 0 5 0 5 0 5 0 5 0 5 0 5 0 5	6th Rev. 115 59 7 -3 -2 24 23	7th Rev. 111 57 6 -3 -2 24 23	6th Rev.	stion 3 cation F 7th Rev. 80 33 4 2 2 3 1	6th Rev. 13 5 3 1 1 1 1 1	7th Rev.	nd inge ject cau or suffoo	7 7th Rev.	6th Rev.	7th Rev.	dy enterorifice	7th Rev. 4	51 45 1 — 1 — 1 — 1 — 1	1 7th Rev. 52 46 1 — 1 — 2 1	mechanon in boradle I 6th Rev. 44	7th Rev.

Causes of death				1	E9 Lack of infants 1 year	care of		uns	E9 Other		nts		Es Other a aused b			
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Ages at death	6th Rev.	7th Rev.	6th Rev.	7th Rev.	6th Rev.	7th Rev.	6th Rev.	7th	6th Rev.	7th	6th Rev.	7th Rev.	6th Rev.	7th Rev.	6th Rev.	7tl Re
All ages	18	21	4	5	10	10	18	17	68	65	36	32	5	6	1	
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death	and	peutic r late cor rapeuti	nisadve mplicati c proce	ions	in s	peutic 1	misadve treatme			peutic	misadve esthesia		of	ate con	nplicati l opera	on tion
	and of the	peutic r late cor rapeuti	nisadve mplicati c proce	ions dures	in s	peutic i	misadve treatme	ent		peutic in anae	misadve esthesia		of	ate con surgica	nplicati l opera	tion F
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Ages at death All ages 0	and of the	peutic ralate con rapeuti 7th Rev.	misadve mplicati c proce	ons dures F 7th Rev.	in s	peutic resurgical	misadve treatme	7th Rev.	6th	peutic in anae	misadve sthesia 6th Rev.	F 7th	of M 6th	ate con surgica	opera	tion
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The content of the		_				_		_	_				_	_2	_2		
Causes of death Causes of		_ ₁	1			_ 1	1		_	_		_	_				
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Causes of death E970 E972 E973 E975 Suicide and self-inflicted poisoning by analgesic and soporific substances Per P	- :: ::	1 8	1 8	=	=	1	1	=	=	7		=	=	183 204	183 204	144 149	144 149
Causes of death E970 E972 Suicide and self-inflicted poisoning by analgesic and soporific substances Suicide and death Ethin Suicide and self-inflicted poisoning by analgesic and soporific substances Suicide and self-inflicted poisoning by analgesic and soporific substances Suicide and self-inflicted poisoning by other gases Suicide and self-inflicted poisoning by other gases Suicide and self-inflicted poisoning by other gases Suicide and self-inflicted injury by submersion (drowning)				2		1 2	1 2						_				
Suicide and self-inflicted poisoning by analgesic and soporific substances Suicide and self-inflicted poisoning by gases in domestic use Suicide and self-inflicted poisoning by gases in domestic use Suicide and self-inflicted poisoning by other Suicide and self-inflicted injury by submersion (drowning) Ages at death 6th 7th 7th 6th 7th 7		5 2 2	2	5	4	1	1	5	4			=	=	33	33	15	15
Ages at death Color		Suicid self-in oning b	le and flicted by analg		po i	Suicid self-in isoning	le and flicted by gas	ses	po	Suicio self-in isoning	le and flicted by oth	er	inj	Suici self-in ury by	de and aflicted submer	sion	
death 6th 7th Rev. Rev. 6th 7th Rev. Rev. Rev. Rev. Rev. Rev. Rev. Rev.		N	1	1	F	N	Л	1	F	N	1	1	F	ľ	vI	J	F
	Ages at death																7th Rev.
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				9	9	41	42 18	36				_	Ξ	17 3 3	17 3 3	1 2	1 2

Causes of death	sel by cu	E9 Suicid f-inflict itting a instru	e and ed inju	ry cing	se by	Suicie If-inflic jumpin	978 de and eted injug from l ace	iry high
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Ages at death	6th Rev.	7th Rev.	6th Rev.	7th Rev.	6th Rev.	7th Rev.	6th Rev.	7th Rev.
All ages	57	56	11	11	24	25	26	26
0 1 5		-		December 1		-		-
15 20	1	1	_	_	_		_	
25 30 35	1 1 1 3	1 1 1 2		_ _ _	_ 3 1	_ 3 1	4 2 2 1	4 2 2 1
45	3 5 6 4	3 5 6 4	1 2 3	1 2 3	1 6 2 3	1 6 2 4	$-\frac{1}{2}$	$-\frac{1}{2}$
65	13 11	13 11	_2	_2	1 4	1 4	5 5	5 5
75 80 85 and over	-4 -3		=_1			_1 ²	1 1 1	1 1 1

Table 3. Causes of death by sex, where the numbers of deaths do not differ between the Sixth and Seventh Revisions, July-December, 1957, England and Wales

Note. Where blanks are shown against a 3-digit cause, the cause will be found in Table 2 (e.g. 003 Pleural tuberculosis) and only the 4-digit causes shown are in agreement (e.g. 003·0).

I.S.C.	Causes of death	Nun of de (all a	aths	I.S.C.	Causes of death	of de	nber eaths ages)
No.	Causes of death	M	F	No.	CHOOLS OF HARMS	M	F
003	Pleural tuberculosis			143	Malignant neoplasm of floor of	33	12
	003.0 Pleurisy specified as tuber-	5		146	Malignant neoplasm of nasopharynx	35	12 17
005	Tracheobronchial glandular tuber-			164	Malignant neoplasm of mediastinum	24	25
007	culosis with symptoms	1	1	165	Malignant neoplasm of thoracic organs (secondary)	15	11
007	Other respiratory tuberculosis	2		173	Malignant neoplasm of other parts	13	*1
011	Tuberculosis, unspecified site Tuberculosis of intestines, peritoneum, and mesenteric glands				of uterus, including chorionepi-		00
012	toneum, and mesenteric glands Tuberculosis of bones and joints,	8	12	201	thelioma	252	23
012	active or unenecified			202	Other forms of lymphoma (reti-		
	012.1 012.2 012.3 Others included under 012		7	204	culosis)	43	42
	012.2 Others included under 012	4	/	204	Leukaemia and aleukaemia 204,2 Monocytic leukaemia	57	48
013	Late effects of tuberculosis of bones			205	Mycosis fungoides	5	6
011	and joints		1	210	Benign neoplasm of buccal cavity	1	1
014	Tuberculosis of skin and subcutaneous cellular tissue	1	2	214	and pharynx Uterine fibromyoma Other benign peoplesm of uterus	1	36
015	Tuberculosis of lymphatic system	1	7	215	Other beingir neoplasin of uterus	-	9
019	Disseminated tuberculosis			217	Benign neoplasm of other female genital organs	-	1
	019.0 Acute miliary tuberculosis	Una-ma	1	221	Pilonidal cyst	2	-
020	Congenitur 3) pintus	3	4	222 226 228	Other benign neoplasm of skin	1 3	3
024	Tabes dorsalis Other syphilis of central nervous	26	12	226	Lipoma Haemangioma and lymphangioma	6	3 7
020		16	12	230-	Neoplasms of unspecified nature	246	180
027	Other forms of late syphilis	3	3	239	Name of unenspiced nature of		1
030-	Gonococcal infection and other	2		230	Neoplasm of unspecified nature of	15	9
030	venereal diseases	1		231	Neoplasm of unspecified nature of	1	
035	Late effects of gonococcal infection	1 25	13	234	respiratory organs Neoplasm of unspecified nature of	6	6
042 045	Other Salmonella infections Bacillary dysentery	23	13	254	ovary	-	1
046		25 2 3	2	236	Neoplasm of unspecified nature of	1 4	2
048	Unspecified forms of dysentery	1	1 6	238	other genito-urinary organs Neoplasm of unspecified nature of	4	1 4
051 052	Streptococcal sore throat Erysipelas	4 3 2	1 1		skin and musculoskeletal system	2	1
055	Diphtheria		1	242	Angioneurotic oedema	2 2 2 3	2
061 063	Gas gangrene	18	2	245 250	Other allergic disorders	3	10
064	Other bacterial diseases	1 -	1 1	251	Simple goitre Non-toxic nodular goitre Disorders of pancreatic internal secretion other than diabetes	1	8
070-	Spirochaetal diseases, except syphilis	10	2	270	Disorders of pancreatic internal	1	
074 070	Vincent's infection	1	1			3	5
072	Leptospirosis	9		273	Diseases of thymus gland	3	-
074 080	Other spirochaetal infections Acute poliomyelitis 080 0 Specified as bulbar polio-	111	62	277	Polyglandular dysfunction and other diseases of endocrine glands	7	9
080	080.0 Specified as bulbar polio-	111		280	Beriberi	1-	1
	oscilled as billion political as billion political encephalitis	50	23	281 282	Beriberi		1 3
	080.1 With other paralysis	49	27	284	Late effects of rickets	1-	3
084	Smallpox		1	288	Gout	8	1
085	Measles		10	290	Pernicious and other hyperchromic anaemias		
087 089	Chickenpox	1	4		290.1 Subacute combined degen-		1,
093	Glandular fever (infectious mono-				eration of spinal cord	7	6
096	nucleosis) Other diseases attributable to	3	2		290.2 Other hyperchromic anaemias	16	26
090	viruses	4	1	292	Other anaemias of specified type	95	120
110	Vivax malaria (henign tertian)	1	-		292.4 Aplastic anaemia 292.0	03	/1
112		1	1		292.3 Out to about ad under 202	32	49
116					292.5 Others included under 292 292.7	1	
	malaria	1	-	205	Haemophilia	7	
122 125	Other protozoal diseases Hydatid disease	8	3	295 297	Agranulocytosis	5	3
126	Other cestode infestation	2	1	300	Schizophrenic disorders (dementia	15	10
132	Actinomycosis	3 6	1 5	302	praecox) Involutional melancholia	1 2	2
134 138	Other infective and parasitic dis-		1	303	Paranoia and paranoid states Presenile psychosis	17	32
	eases	22	18	305		3 3/	1 24

Table 3—continued

		Nu	mber leaths	1			mber eaths
I.S.C. No.	Causes of death	(all	ages)	I.S.C.	Causes of death		ages)
		M	F			M	F
207	Alexandra de la companya del companya de la companya del companya de la companya	2		521	Absociate of supporting structures		
307 309	Alcoholic psychosis Other and unspecified psychosis	2 4	17	531	Abscesses of supporting structures of teeth Other inflammatory diseases of	2	1
310- 318	Psychoneurotic disorders	10	15	532	Other inflammatory diseases of supporting structures of teeth	5	2
311	Hysterical reaction without mention	1		536	Stomatitis	5 2	-
312	of anxiety reaction Phobic reaction	6	10	539 542	Stomatitis	31	18
313	Obsessive-compulsive reaction	1	3		542.0 Without mention of per-	12	4
314 316	Neurotic-depressive reaction Psychoneurosis with somatic symp-	-	3		542.1 With perforation	12 2	-
	toms (somatization reaction) affecting digestive system	_	1	543 551	Gastritis and duodenitis	21 38	19 20
317	Psychoneurosis with somatic symp-		1	552	Other appendicitis	2	-
	toms (somatization reaction)	1		553 561	Other diseases of appendix Hernia of abdominal cavity with	-	1
318	affecting other systems		1		obstruction	277	309
322	mixed, and unspecified types Alcoholism	1	1	570	Intestinal obstruction without men- tion of hernia		
	322.0 Acute 322.2 Unspecified Mental deficiency Spasm of cerebral arteries	2	1	571	570.0 Intussusception Gastro-enteritis and colitis, except	13	10
325	Mental deficiency	33	28		ulcerative, age 4 weeks and over	167	195
333 340	Spasm of cerebral arteries Meningitis, except meningococcal	1	_	572	Chronic enteritis and ulcerative colitis		
510	and tuberculous	14		574	572.0 Regional enteritis	18	21
	340.0 H. Influenzae 340.2 Due to other unspecified	14	. 5	574 577	Anal fissure and fistula	1	_
341	organism	18	19	580	Acute and subacute yellow atrophy of liver	24	30
	intracranial venous sinuses	8	5	582	Suppurative hepatitis and liver		
342 345	Intracranial and intraspinal abscess Multiple sclerosis	36	18 251	583	abscess Other diseases of liver	11	5 14
354	Migraine Other diseases of brain	57	1 56	586	Other diseases of gallbladder and	13	
355 356	Motor neurone disease and muscular	31	30	601	biliary ducts	33	32 42 76
	atrophy 356.1 Amyotrophic lateral sclerosis	17	13	602 604	Calculi of kidney and ureter Calculi of other parts of urinary	71	76
	356.2 356.3 Others included under 356	36	28		system	13	10 93
361	Trigeminal neuralgia	_	1	605	Urethritis (non-venereal)	55	1
363	Sciatica	13	1 8	608 612	Urethritis (non-venereal) Stricture of urethra Other diseases of prostate	55	_
364 368	Polyneuritis and polyradiculitis Other diseases of peripheral nerves			613	Hydrocele	7 1 2 1 2	
385	except autonomic	1 4	1 12	614	Hydrocele Orchitis and epididymitis Redundant prepuce and phimosis	1	
386	Cataract Detachment of retina Glaucoma Other diseases of eye	2 2 1		617	Other diseases of male genital organs	2	
387 388	Other diseases of eye	1	1	620-	Diseases of breast, ovary, Fallopian tube, and parametrium Other diseases of breast	-	24
393		11	3	621 622	Other diseases of breast Acute salpingitis and oophoritis	_	24 2 4 2
395	media	1	1	623	Chronic salpingitis and oophoritis		2
396	Other diseases of ear and mastoid	1	1	624	Salpingitis and oophoritis, unqualified		7
397 402	process	4	7	625	Other diseases of ovary and Fallo- pian tube		1
412	Chorea Diseases of tricuspid valve	2	5	626	Diseases of parametrium and pelvic		
432	Acute pericarditis specified as non- rheumatic	7	6	630-	peritoneum (female) Diseases of uterus and other female		8
453	Peripheral vascular disease	24	8 2	637 630	genital organs		80
	453.1 Thrombo-angiitis obliterans	15	1		and vulva	_	4
	453.2 Others included under 453	9	5	631	and vulva	_	55 16
454	Arterial embolism and thrombosis	19	20	634	Disorders of menstruation		4
460 472	Varicose veins of lower extremities Acute pharyngitis	29	83	635 641	Other injections of genito-urmary		
474 510	Acute pharyngitis Acute laryngitis and tracheitis Hypertrophy of tonsils and adenoids	9	17	644	tract during pregnancy Other haemorrhage of pregnancy		2
511	Peritonsillar abscess (quinsy)	1	3	645	Ectopic pregnancy		10
512	Chronic pharyngitis and naso- pharyngitis	1	1	646 648	Anaemia of pregnancy Other complications arising from	-	1
513	Chronic sinusitis	13	7	650-	pregnancy	_	3 35
514 515	Deflected nasal septum Nasal polyp	1	1	652			
516 518	Chronic laryngitis	39	18	650	Abortion without mention of sepsis or toxaemia	_	14
520	Spontaneous pneumothorax	4	2	651	Abortion with sepsis Abortion with toxaemia, without	-	19
522	Pulmonary congestion and hypostasis	85	169	652	mention of sepsis	-	2

Table 3—continued

I.S.C.		Nun of de (all a	aths	I.S.C.	Constitution	of de	mber eaths ages)
No.	Causes of death	M	F	No.	Causes of death	M	F
670- 678	Delivery with specified complication	_	51	786	Symptoms referable to genito- urinary system	1	
671	Delivery complicated by retained		1	E801	Railway accident involving pas- senger	10	2
672	placenta Delivery complicated by other		9	E802	Railway accident involving other	51	6
674	postpartum haemorrhage Delivery complicated by disproportion or malposition of foetus			E810	and unspecified person Motor vehicle traffic accident	31	0
675	portion or malposition of foetus Delivery complicated by prolonged labour of other origin	_	7	E814	involving collision with railway train	5	
677 681	Delivery with other trauma Sepsis of childbirth and the puer- perium		7		Motor vehicle traffic accident to rider or passenger of motorcycle in collision with non-motor vehicle or object	34	3
682 684	Puerperal phlebitis and thrombosis Puerperal pulmonary embolism		12 4 2	E818	Motor vehicle traffic accident involving collision with animal	1	1
685 688	Puerperal eclampsia Other and unspecified complications of the puerperium	_	2	E819	or animal-drawn vehicle Motor vehicle traffic accident involving collision with fixed or		1
690 691 693	Cellulitis of finger and toe Other cellulitis and abscess with	14	13	E821	unspecified object Motor vehicle traffic accident to rider of motorcycle without	3	10
695 701 703	lymphangitis	4	2 1 4	E832	antecedent collision Motor vehicle non-traffic accident to rider or passenger of motor-	232	18
703 706	Other dermatitis		2	E833	Other motor vehicle non-traffic	4	_
708 709 711	Corns and callosities	1 2 1	1		accident involving two or more motor vehicles	1	-
712	Other dermatoses Diseases of nail Acute arthritis due to pyogenic	ĩ	-	E842	Accident to pedestrian caused by pedal cycle	18	12
720	organisms	5	7	E845	Other non-motor road vehicle accidents	1	3
724 726	Other specified forms of arthritis Muscular rheumatism	4	2	E853	Other falls from one level to another	l l	3
726 727 730-	Rheumatism, unspecified Osteomyelitis and other diseases of	2	1	E854	in water transport Falls on same level in water trans-	9	
730- 738 730	bone and joint	82 25	79 17	E855	port	2	=
731	Osteitis deformans	40	37 22	E856	Machinery accident in water trans- port	3	
733 735	Displacement of intervertebral disc	4	1	E858	Water transport accident of unspeci-	1	
737 738	Ankylosis of joint Other diseases of joint	1	1 1	E860	fied cause	1	
743	Infective myositis and other inflam- matory diseases of tendon and	1		E861	Injury to occupant by accident to commercial "transport" aircraft	31	_
744	fascia Other diseases of muscle, tendon,		-	E863	Injury to occupant by accident to	3	1
747	and fascia Hallux valgus and varus	51	28	E870	other specified aircraft Accidental poisoning by morphine		1
748 749	Clubfoot Other deformities	1	1 4	E871	and other opium derivatives Accidental poisoning by barbituric acid and derivatives		-
767	Umbilical sepsis Nutritional maladjustment	6 3	6	E872	acid and derivatives Accidental poisoning by aspirin and	1	60
772 780	Certain symptoms referable to nervous system and special senses	5	1	E873	Accidental poisoning by bromides	8	14
	780.2 Convulsions 780.0	4	-	E876 E879	Accidental poisoning by strychnine Accidental poisoning by noxious foodstuffs	1	1
	780.1 780.3 780.4		1	E880 E881	Accidental poisoning by alcohol Accidental poisoning by petroleum products	3	. 1
	780.5 Others included under 780 780.6 780.7	1	1	E882	Accidental poisoning by industrial solvents	3	-
#00	780.8			E883	Accidental poisoning by corrosive aromatics, acids, and caustic alkalis	2	6
782	Symptoms referable to cardiovas- cular and lymphatic system 782.0 782.1			E888	Accidental poisoning by other and unspecified solid and liquid substances	7	-
	782.2			E891	Accidental poisoning by motor vehicle exhaust gas	1	-
	782.3 782.5 Others included under 782	4	1	E892	Accidental poisoning by other	13	6
	782.6 782.7 782.8			E894	Accidental poisoning by other specified gases and vapours	10	1 3
785	782.9 J Symptoms referable to abdomen and lower gastro-intestinal tract	1	2	E901 E910	Fall from ladders Blow from falling or projected object or missile		

Table 3—continued

I.S.C.	Causes of death	of d	mber eaths ages)	I.S.C.	Causes of death	of de	mber eaths ages)
No.		M	F			M	F
E913	Accident caused by cutting and piercing instruments	8	5	E953	Therapeutic misadventure in administration of drugs or biologicals	_	4.1
E914 E915	Accident caused by electric current Accident caused by explosion of	58	9	E955	Other and unspecified therapeutic misadventure	2	
E919 E927	pressure vessel Accident caused by firearm Accidents caused by bites and stings of venomous animals and insects	38	5	E960 E963 E971	Late effect of motor vehicle accident Late effect of self-inflicted injury Suicide and self-inflicted poisoning	514	1
E929	Accidental drowning and sub- mersion	381	107	E974	by other solid and liquid sub- stances	41	29
E931 E932	Excessive heat and insolation Excessive cold	1	3		hanging and strangulation	245	70
E933 E935	Hunger, thirst, and exposure	6	7	E976	Suicide and self-inflicted injury by firearms and explosives	99	7
E940- 946	Complications due to non-therapeutic medical and surgical procedures.	3	4	E979	Suicide and self-inflicted injury by other unspecified means	68	17
E940	Generalized vaccinia following vac-	1	_	E980- E985	Homicide and injury purposely inflicted by other persons (not in		
E941 E942	Postvaccinal encephalitis Other complications of smallpox	-	2	E980	war) Non-accidental poisoning by another	71	62
E943	vaccination	1		E981	person	10	10
E944	hepatitis		1	E982	Assault by cutting and piercing instruments	10	12
E946	Other complications due to non-	1	-	E983 E985	Assault by other means Execution	42	36
	therapeutic medical and surgical procedures	_	1	E990- E999	Injury resulting from operations of war	-	_

Table 4. Causes of death where no deaths were recorded in the period July– December, 1957, England and Wales

I.S.C. No.	Causes of death	I.S.C. No.	Causes of death
004	Drimowy tyhoroylogia gomelay with	073	Yaws
004	Primary tuberculosis complex with symptoms	0/3	080.2 Acute poliomyelitis specified
006	Radiological evidence suggestive of		as non-paralytic
000	active respiratory tuberculosis not	086	Rubella (German measles)
	classifiable elsewhere	090	Dengue
021	Early syphilis	091	Yellow fever
028	Latent syphilis	094	Rabies
031	Chronic gonococcal infection of	095	Trachoma
	genito-urinary system	100	Louse-borne epidemic typhus
032	Gonococcal infection of joint	101	Flea-borne endemic typhus (murine)
033	Gonococcal infection of eye	102	Brill's disease, not specified as louse-
034	Gonococcal infection of other sites	102	or flea-borne
036	Chancroid	103	Tabardillo (Mexican typhus), not
037 038	Lymphogranuloma venereum	104	specified as louse- or flea-borne
038	Granuloma inguinale, venereal	104	Tick-borne typhus
039	Other and unspecified venereal diseases	103	Mite-borne typhus Volhynian fever (trench fever)
041	Paratyphoid fever	107	Typhus, unspecified
043	Cholera	108	Other rickettsial diseases
044	Brucellosis (undulant fever)	111	Malariae malaria (quartan)
047	Other protozoal dysentery	113	Ovale malaria
058	Plague	114	Mixed malarial infections
059	Tularaemia	115	Blackwater fever
060	Leprosy	117	Recurrent induced malaria
062	Anthrax	120	Leishmaniasis
071	Relapsing fever	121	Trypanosomiasis

Table 4—continued

1.S.C. No. Causes of death S.C. No. Causes of death				
Filariasis Trichiniasis Ankylostomiasis Ankylostomiasis Infestation with worms of other, mixed, and unspecified type Dermatophytosis Scabies Scabies Scabies Other arthropod infestation Benign meoplasm of breast Benign neoplasm of male genital organs Benign melanoma of skin Other arthropod infestation Other proplasm of male genital organs Sensign melanoma of skin Other arthropod infestation Other delivers Benign meoplasm of male genital organs Corneal opacity Strabismus Strabismus Other inflammatory diseases of ear Other deafness Other deafn		Causes of death		Causes of death
Filariasis Trichiniasis Ankylostomiasis Ankylostomiasis Infestation with worms of other, mixed, and unspecified type Dermatophytosis Scabies Scabies Scabies Other arthropod infestation Benign meoplasm of breast Benign neoplasm of male genital organs Benign melanoma of skin Other arthropod infestation Other proplasm of male genital organs Sensign melanoma of skin Other arthropod infestation Other delivers Benign meoplasm of male genital organs Corneal opacity Strabismus Strabismus Other inflammatory diseases of ear Other deafness Other deafn				
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Ankylostomiasis Infestation with worms of other, mixed, and unspecified type Dermatophytosis Scabies Scabies Scabies Other arthropod infestation Benign neoplasm of breast Benign neoplasm of male genital organs Benign melanoma of skin Neoplasm of unspecified nature of other female genital organs Neoplasm of unspecified nature of other female genital organs Malposition of utriciaria Active rickets Osteomalacia Active raction without mention of somatic symptoms Anxiety reaction without mention of somatic symptoms Anxiety reaction without mention of somatic symptoms Anxiety reaction without mention of orders ing circulatory system Application orders Active rickets Osteomalacia Active sinustitia Corpario active sinustitis Active sinustitia Citronic cystic disease of breast Malposition of uterus Sterilty, female Other diseases of female penital organs Pyelitis and	127	Filariasis		
Ankylostomiasis mixed, and unspecified type mixed, and unspecified type Dermatophytosis Coccidioidomycosis Scabies Sca	128	Trichiniasis	383	
Infestation with worms of other, mixed, and unspecified type Dermatophytosis Dermatophytosis Scabies Pediculosis Other arthropod infestation Other deafness Diseases of pulmonary valve specified as non-rheumatic 471. Actute sinusitis Dental caries Other diseases of breast Malposition of uterus Sterility, female Other diseases of female genital organs Pyelitis and pyelonephritis of pregnancy Placenta praevia Pregnancy with malposition of foetus in uterus Delivery complicated by abnormality Other drug addiction Acute lymphadenitis Infectious warts Oluscum contagiosum Other forms of puerperal toxaemia Mastitis and other disorders of lactation Acute lymphadenitis Infectious warts Oluscum contagiosum Other forms of sweat and sebacious glands Other diseases of skin Actute lymphadenitis Infectious warts Oluscum contagiosum Other forms of puerperal toxaemia Mastitis and other disorders of lactation Acute lymphadenitis Infectious warts Oluchacher from unspecified as non-rheumatic Active rickets Octoronic cystic disease of preast Malposition of uterus Sterility, female Other diseases of female genital organs Pyelitis and pyelo		Ankylostomiasis	384	Strabismus
mixed, and unspecified type 133		Infestation with worms of other,	3 89	Blindness
Coccidiodomycosis Scabies Scabies Scabies Other arthropod infestation Other diseases of perineum, without mention of other laceration Other diseases of perineum, without mention of other laceration Other diseases of perineum, without mention of other laceration Other diseases of perineum, without mention of other laceration Other diseases of perineum, without mention of other laceration Other diseases of perineum, without mention of other laceration Other diseases of perineum, without mention of other laceration Other diseases of perineum, without mention of other laceration Other diseases of perineum, without mention of other laceration Other diseases of perineum, without mention of other laceration Other diseases of perineum, without mention of other laceration Other diseases of semale genital Other d		mixed, and unspecified type	390	
133 Coccidioidomycosis 136 Pediculosis 137 Other arthropod infestation 137 Other arthropod infestation 138 Other diseases of pulmonary valve specified as neumatic 421.2 Of tricuspid valve, specified as non-rheumatic 421.2 Of tricuspid valve, speci	131	Dermatophytosis	394	Other inflammatory diseases of ear
Pediculosis Other arthropod infestation Benign neoplasm of breast Organs Senign melanoma of skin Neoplasm of unspecified nature of breast Overland definition of the stations of the senign neoplasm of unspecified nature of breast Overland definition of the stations of the senign neoplasm of unspecified nature of the stations of the senign of unspecified nature of other female genital organs Overland definition of the stations of the senign of the senign neoplasm of unspecified nature of the stations of the senign of unspecified nature of other female genital organs Overland definition of the stations of the senign neoplasm of the senign neoplasm of whole stations of the senign neoplasm of breast Overland definition of the senign neoplasm of breast Overland definition of the senign neoplasm of breast Overland definition of the senign neoplasm of skin of the senign neoplasm of unspecified nature of the senign neoplasm of unspecified nature of the stations of the senign neoplasm of unspecified nature of the senign neoplasm of unspecified nature of the senign neoplasm of unspecified nature of the senign neoplasm of unspecified nature of the senign neoplasm of unspecified nature of the senign neoplasm of unspecified nature of the senign neoplasm of unspecified nature of the senign neoplasm of unspecified nature of the senign neoplasm of unspecified nature of the senign neoplasm of unspecified nature of the senign neoplasm of unspecified nature of the senign neoplasm of unspecified nature of the senign neoplasm of unspecified nature of the senign neoplasm of unspecified nature of the senign neoplasm of unspecified nature of the senign neoplasm of unspecified nature of the senign neoplasm of unspecified nature of the senign neoplasm of unspecified nature of the senign neoplasm of unspecified cases of senign neoplasm of unspecified nature of the senign neoplasm of the senign neoplasm of the senign neoplasm of the senign neoplasm of the senign neoplasm of the senign neoplasm of the senign neoplasm of the senign neoplasm				
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Benign neoplasm of breast Benign neoplasm of male genital organs Benign melanoma of skin Neoplasm of unspecified nature of breast Neoplasm of unspecified nature of other female genital organs Neoplasm of unspecified nature of other female genital organs Hay fever Urticaria Active rickets Ovarian dysfunction Symptoms Sychoneurosis with somatic symptoms (somatic symptoms (somatication reaction) affecting circulatory system Pathological personality Other drug addiction Other and unspecified character, behaviour, and intelligence disorders Other and unspecified character, behaviour, and intelligence disorders Other and unspecified character, behaviour, and intelligence disorders Other diseases of cranial nerves Other diseases of female genital Other diseases of female genital Other diseases of female genital Other diseases of female prize Other diseases of female prize Other diseases of female prize Other diseases of female prize Other diseases of female prize Other diseases of female prize Other diseases of female prize Other diseases of female prize Other diseases of female prize Other diseases of female prize Other diseases of female prize Other diseases of female prize Other diseases of female prize Other diseases of female prize Other diseases of female prize Other diseases of female prize Other diseases of female prize Other dise	136			
218 Benign neoplasm of male genital organs 220 Benign melanoma of skin 231 Neoplasm of unspecified nature of the preast 232 Neoplasm of unspecified nature of other female genital organs 233 Neoplasm of unspecified nature of other female genital organs 244 Hay fever 243 Urticaria 244 Allergic ezema 245 Ovarian dysfunction 256 Ovarian dysfunction 267 Testicular dysfunction 276 Tosticular dysfunction 277 Ovarian dysfunction 278 Acute sinusitis 270 Other denale genital organs 270 Varian dysfunction 271 Tosticular dysfunction 272 Ovarian dysfunction 273 Anxiety reaction without mention of somatic symptoms 274 Preparation of the primary childhood behaviour orders 275 Other drug addiction 276 Other drug addiction 277 Other drug addiction 278 Pacial paralysis 279 Diseases of peripheral autonomic nervous system 270 Conjunctivitis and ophthalmia 271 Blepharitis 272 Hordeolum (stye) 273 Iritis 274 Keratitis 275 Choroiditis 276 Other inflammation of optic nerve and retina 277 Inflammation of olachrymal glands 278 Inflammation of lachrymal glands 279 Inflammation of lachrymal glands 270 Inflammation of lachrymal glands 271 Inflammation of lachrymal glands 272 Inflammation of lachrymal glands 273 Inflammation of lachrymal glands 274 Inflammation of olachrymal glands 275 Overside dease of breast 275 Chronic eystic disease of breast 275 Chronic eystic disease of breast 275 Malposition of uterus 276 Chronic eystic disease of breast 275 Malposition of uterus 276 Other diseases of female genital organs 277 Preplitia and pyelonephritis of pregnancy 278 Preplitia and pyelonephritis of pregnancy 279 Preplitia and pyelonephritis of pregnancy 280 Other diseases of female genital organs 281 Chronic eystic disease of breast 282 Sterility, male 282 Chronic eystic disease of breast 283 Acute aries 284 Allergic ezema 285 Cetrility, male 286 Other diseases of female genital organs 286 Other diseases of female genital organs 287 Preplitia and pyelonephritis of peliacenta praevia 288 Preplitia and pyelonephritis of peliacenta praevia 29 Prepl	137	Other arthropod infestation		
220 Benign melanoma of skin 232 Neoplasm of unspecified nature of breast 233 Neoplasm of unspecified nature of uterus 234 Neoplasm of unspecified nature of other female genital organs 240 Hay fever 241 Urticaria 242 Allergic eczema 243 Ovarian dysfunction 256 Testicular dysfunction 283 Active rickets 285 Osteomalacia 280 Anxiety reaction without mention of somatic symptoms (somatization reaction) affecting circulatory system 280 Pathological personality 281 Other drug addiction 282 Other and unspecified character, behaviour, and intelligence disorders 286 Erythroedema polyneuritica 287 Other diseases of cranial nerves 288 Other diseases of canial neuritis 289 Other drug addiction 280 Facial paralysis 280 Facial paralysis 281 Other drug addiction 282 Other drug addiction 283 Cother drug addiction 284 Primary childhood behaviour disorders 285 Other and unspecified character, behaviour, and intelligence disorders 286 Erythroedema polyneuritica 287 Other diseases of cranial nerves 288 Delivery with laceration of other laceration Puerperal urinary infection without on ther sepsis 289 Pyrexia of unknown origin during the puerperium 280 Other diseases of cranial nerves 281 Other diseases of cranial nerves 282 Other diseases of cranial nerves 283 Other diseases of chemale genital organs 284 Pregnancy with malposition of oteus in uterus 285 Delivery with laceration of perineum, without mention of other laceration Puerperal urinary infection without on ther sepsis 285 Pyrexia of unknown origin during the puerperium 286 Other diseases of cranial nerves 287 Other diseases of caracter, behaviour, and intelligence disorders 288 Delivery omplicated by abnormality of bony pelvis 289 Delivery omplicated by abnormality of bony pelvis 289 Delivery omplicated by abnormality of bony pelvis 280 Delivery omplicated by abnormality of bony pelvis 280 Dental caries 380 Dental c	213	Benign neoplasm of breast		
220 Benign melanoma of skin 232 Neoplasm of unspecified nature of breast 233 Neoplasm of unspecified nature of uterus 234 Neoplasm of unspecified nature of other female genital organs 240 Hay fever 241 Urticaria 242 Allergic eczema 243 Ovarian dysfunction 256 Testicular dysfunction 277 Ovarian dysfunction 283 Active rickets 285 Osteomalacia 310 Anxiety reaction without mention of somatic symptoms 315 Psychoneurosis with somatic symptoms (somatization reaction) affecting circulatory system 320 Pathological personality 321 Immature personality 322 Other drug addiction 324 Primary childhood behaviour disorders 326 Other and unspecified character, behaviour, and intelligence disorders 327 Other diseases of cranial nerves 328 Diseases of peripheral autonomic nervous system 329 Other diseases of cranial nerves 320 Diseases of peripheral autonomic nervous system 321 Blepharitis 322 Hordeolum (stye) 323 Tirits 324 Keratitis 325 Choroiditis 326 Drana Carles 327 Other diseases of cranial nerves 328 Diseases of peripheral autonomic nervous system 329 Diseases of peripheral autonomic nervous system 320 Other diseases of cranial nerves 321 Delivery complicated by abnormality of bony pelvis 322 Delivery with laceration of other laceration of ther acceration of other acceration of other disorders of lactation 329 Other diseases of peripheral autonomic nervous system 320 Other diseases of cranial nerves 321 Diseases of skin Acute non-pyogenic arthritis 322 Diseases of skin Acute non-pyogenic arthritis 323 Other diseases of skin Acute non-pyogenic arthritis or of cocupational dermatitis 329 Diseases of skin Acute non-pyogenic arthritis or of cocupational origin 320 Other diseases of cranial nerves of cranial nerves or cranial nerves or cranial nerves or cranial nerves or cranial nerves or cranial nerves or cranial nerves or cranial nerves or cranial nerves or cranial nerves or cranial nerves or cranial nerves or cranial nerves or cranial nerves or cranial nerves or cranial nerves or cranial nerves or cranial nerves or cranial n	218	Benign neoplasm of male genital		
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breast Neoplasm of unspecified nature of other female genital organs Neoplasm of unspecified nature of other female genital organs Neoplasm of unspecified nature of other female genital organs Neoplasm of unspecified nature of other female genital organs Neoplasm of unspecified nature of other female genital organs Neoplasm of unspecified nature of other female genital organs Neoplasm of unspecified nature of other female genital organs Other diseases of female genital organs Neoplasm of unspecified nature of other female genital organs Neoplasm of unspecified nature of other diseases of female genital organs Neoplasm of unspecified nature of other diseases of female genital organs Neoplasm of unspecified nature of other diseases of female genital organs Neoplasm of unspecified nature of other diseases of female genital organs Neoplasm of unspecified nature of other diseases of female genital organs Neoplasm of unspecified nature of other diseases of female genital organs Neoplasm of unspecified nature of other diseases of female genital organs Neoplasm of unspecified nature of other diseases of female genital organs Neoplasm of unspecified off Neoplasm of unspecified off Neoplasm of unspecified off Neoplasm of unspecified off Neoplasm of unspecified off Neoplasm of unspecified off Neoplasm of unspecified off Neoplasm of unspecified off Neoplasm of unspecified off Neoplasm of unspecified off Neoplasm of unspecified off Neoplasm of unspecified off Neoplasm of unspecified off Neoplasm of unspecified off Neoplasm of perplation of pregnancy with malposition of foetus in uterus Neolity of bony pelvis Neoplasm of unspecified off Neoplasm of pregnancy with malposition of foetus in uterus Neolity of bony pelvis Neoplasm of pregnancy with malposition of perplacenta pregnancy Network of orders of nature of policy with laceration of perplacenta pregnancy Network of order diseases of perineum, without mention of oblication of lacetation Neoplasm of pregnancy with malposition of pelicity of bony pelvis Neoplasm of pregnancy	232	Neoplasm of unspecified nature of		Sterility, male
uterus Neoplasm of unspecified nature of other female genital organs Hay fever Urticaria Hay fever Ovarian dysfunction Active rickets Osteomalacia Anxiety reaction without mention of somatic symptoms Psychoneurosis with somatic symptoms (somatization reaction) affecting circulatory system Pathological personality Immature personality Immature personality Other drug addiction Primary childhood behaviour disorders Other and unspecified character, behaviour, and intelligence disorders Brachial neuritis See Erythroedema polyneuritica Other diseases of female genital organs Other diseases of female genital organs Other diseases of female genital organs Other diseases of pregnancy Placenta praevia Pregnancy with malposition of foetus in uterus Delivery complicated by abnormality of bony pelvis Delivery circulatory and pelvient pregnary with alecration of bony pelvis		breast		Chronic cystic disease of breast
1235 Neoplasm of unspecified nature of other female genital organs 1240 Hay fever 1241 Urticaria 1242 Allergic eczema 1256 Ovarian dysfunction 1267 Testicular dysfunction 1276 Testicular dysfunction 1283 Active rickets 1285 Osteomalacia 1310 Anxiety reaction without mention of somatic symptoms 1315 Psychoneurosis with somatic symptoms (somatization reaction) affecting circulatory system 1320 Pathological personality 1321 Immature personality 1322 Other drug addiction 1324 Primary childhood behaviour disorders 1326 Other and unspecified character, behaviour, and intelligence disorders 1326 Brachial neuritis 1327 Erythroedema polyneuritica 1328 Diseases of peripheral autonomic nervous system 1329 Diseases of peripheral autonomic nervous system 1320 Diseases of peripheral autonomic nervous system 1321 Diseases of peripheral autonomic nervous system 1322 Dritis and pyelonephritis of pregnancy with malposition of foetus in uterus 1323 Delivery complicated by abnormality of bony pelvis Delivery with laceration of perineum, without mention of other laceration of perineum, without mention of other laceration of purepreal urinary infection without other sepsis Pyrexia of unknown origin during the puerperium Other forms of puerperal toxaemia Mastitis and other disorders of lactation 1340 Acute lymphadenitis Infectious warts Molluscum contagiosum Seborrhoeic dermatitis Cocupational dermatitis Diseases of sweat and sebacious glands Other diseases of skin Acute non-pyogenic arthritis Osteochondrosis Internal derangement of knee joint Affection of sacro-iliac joint Bunion Synovitis, bursitis, and tenosynovitis without mention of occupational origin Synovitis, bursitis, and tenosynovitis without mention of occupational origin Flat foot	233	Neoplasm of unspecified nature of		
other female genital organs Hay fever Urticaria Allergic eczema Ovarian dysfunction Testicular dysfunction Active rickets Osteomalacia Anxiety reaction without mention of somatic symptoms Psychoneurosis with somatic symptoms Psychoneurosis with somatic symptoms Psychoneurosis with somatic symptoms (670 anxiety reaction) affecting circulatory system Testing circulatory s		uterus		Sterility, female
Hay fever 243 Urticaria 244 Allergic eczema Ovarian dysfunction 275 Ovarian dysfunction 276 Testicular dysfunction 287 Active rickets 310 Anxiety reaction without mention of somatic symptoms 315 Psychoneurosis with somatic symptoms (somatization reaction) affecting circulatory system 320 Pathological personality 321 Immature personality 322 Other drug addiction 324 Pregnancy with malposition of foetus in uterus 325 Delivery complicated by abnormality of bony pelvis 326 Delivery with laceration of perineum, without mention of other laceration of Puerperal urinary infection without other sepsis 326 Pracial paralysis 327 Other and unspecified character, behaviour, and intelligence disorders 328 Terythroedema polyneuritica 329 Terythroedema polyneuritica 330 Other diseases of cranial nerves 331 Blepharitis 331 Blepharitis 332 Hordeolum (stye) 333 Tilis 334 Keratitis Choroiditis 335 Choroiditis 336 Other inflammation of uveal tract Inflammation of optic nerve and retina 337 Inflammation of lachrymal glands 338 Inflammation of lachrymal glands 339 Inflammation of lachrymal glands 340 Pspelitis and pyelonephritis of pregnancy 643 Pregnancy 647 Pregnancy 647 Pregnancy 648 Pregnancy 649 Pregnancy 649 Pregnancy 649 Pregnancy 649 Pregnancy 640 Pregnancy 649 Pregnancy 640 Pregnancy 640 Pregnancy 641 Pregnancy 642 Pregnancy 642 Pregnancy 643 Pregnancy 643 Pregnancy 644 Pregnancy 643 Pregnancy 643 Pregnancy 643 Pregnancy 644 Pregnancy 645 Pregnancy 645 Pregnancy 646 Pregnancy 647 Pregnancy 648 Pregnancy 649 Pregnancy 640 Pregnancy 640 Pregnancy 640 Pregnancy 640 Pregnancy 640 Pregnancy 641 Pregnancy 642 Pregnancy 642 Pregnancy 643 Pregnancy 640 Pregnancy 640 Pregnancy 640 Pregnancy 640 Pregnancy 640 Pregnancy 640 Pregnancy 640 Pregnancy 640 Pregnancy 640 Pregnancy 640 Pregnancy 640 Pregnancy 640 Pregnancy 640 Pregnancy 640 Pregnancy 640 Pregnancy 640 Pregnancy 641 Pregnancy 640 Pregnancy 642 Pregnancy 643 Pregnancy 643 Pregnancy 644 Pre	235	Neoplasm of unspecified nature of	637	
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374 Keratitis 375 Choroiditis 376 Other inflammation of optic nerve and retina 378 Inflammation of lachrymal glands and ducts 378 Other inflammation of optic nerve and retina 378 Inflammation of lachrymal glands 378 Inflammation of lachrymal glands 378 Inflammation of lachrymal glands 379 Inflammation of optic nerve and retina 379 Inflammation of optic nerve and retina 370 Inflammation of optic nerve and retina 370 Inflammation of optic nerve and retina 370 Inflammation of optic nerve and retina 370 Inflammation of optic nerve and retina 370 Inflammation of optic nerve and retina 370 Inflammation of optic nerve and retina 370 Inflammation of optic nerve and retina 370 Inflammation of optic nerve and retina 370 Inflammation of optic nerve and retina 370 Inflammation of optic nerve and retina 370 Inflammation of lachrymal glands 370 Inflammation of lachrymal glands 370 Inflammation of lachrymal glands 370 Inflammation of lachrymal glands 370 Inflammation of lachrymal glands 370 Inflammation of lachrymal glands				Affection of sacro-iliac joint
375 Choroiditis Other inflammation of uveal tract Inflammation of optic nerve and retina 378 Inflammation of lachrymal glands and ducts 741 Synovitis, bursitis, and tenosynovitis without mention of occupational origin 742 Synovitis, bursitis, and tenosynovitis of occupational origin 748 Flat foot 749 Flat foot				Bunion
376 Other inflammation of uveal tract Inflammation of optic nerve and retina 378 Inflammation of lachrymal glands and ducts 376 Other inflammation of occupational origin 377 viting the properties of occupational origin 378 Inflammation of lachrymal glands 378 Inflammation of lachrymal glands 378 Inflammation of lachrymal glands 378 Inflammation of occupational origin 379 Viting the properties of occupational origin 379 Viting the properties of occupational origin 370 Viting inflammation of occupational origin 370 Viting inflammation of occupational origin 370 Viting inflammation of optic nerve and origin 370 Viting inflammation of occupational origin 370 Viting inflammation of occupational origin 370 Viting inflammation of occupational origin 370 Viting inflammation of occupational origin 370 Viting inflammation of occupational origin 370 Viting inflammation of occupational origin 370 Viting inflammation of occupational origin 370 Viting inflammation of occupational origin 370 Viting inflammation of occupational origin 371 Viting inflammation of occupational origin 372 Viting inflammation or occupational origin 373 Viting inflammation or occupational origin 374 Viting inflammation or occupational origin 375 Viting inflammation or occupational origin 376 Viting inflammation or occupational origin 377 Viting inflammation or occupational origin 378 Viting inflammation or occupational origin 378 Viting inflammation or occupational origin 379 Viting inflammation or occupational origin 379 Viting inflammation or occupational origin 379 Viting inflammation or occupational origin 379 Viting inflammation or occupational origin 379 Viting inflammation or occupational origin 379 Viting inflammation or occupational origin 379 Viting inflammation or occupational origin 379 Viting inflammation or occupational origin 379 Viting inflammation or occupational origin 379 Viting inflammation or occupational origin 379 Viting inflammation origin 379 Viting inflammation origin 379 Viting inflammation origin 379 Viting inflammation				Synovitis, bursitis, and tenosynovitis
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retina retina Inflammation of lachrymal glands and ducts 742 Synovitis, buisins, and tenesynovitis of occupational origin 746 Flat foot		Inflammation of ontic nerve and		origin
378 Inflammation of lachrymal glands of occupational origin and ducts	311	retina	142	Synovitis, bursitis, and tenosynovitis
and ducts 746 Flat 100t	378	Inflammation of lachrymal glands		of occupational origin
379 Other inflammatory diseases of eye 765 Ophthalmia neonatorum	5,0	and ducts	746	Flat foot
	379	Other inflammatory diseases of eye	765	Ophthalmia neonatorum
			l	

Table 4—continued

I.S.C. No.	Causes of death	I.S.C. No.	Causes of death				
781	Other symptoms referable to nervous system and special senses	E895	Accidental poisoning by unspecified gases and vapours				
787	Symptoms referable to limbs and back	E918	Accident caused by radiation				
789	Abnormal urinary constituents of	E920 E930	Foreign body entering eye and adnex. High and low air pressure				
790	unspecified cause Nervousness and debility	E934	Cataclysm				
791	Headache	E945	Complications of anaesthesia for non-				
793	Observation, without need for further	E051	therapeutic purpose				
TC011	medical care	E951	Therapeutic misadventure in infusion or transfusion				
E811	Motor vehicle traffic accident involving collision with street car	E952	Therapeutic misadventure in local				
E817	Motor vehicle traffic accident to		applications				
	occupant of motor vehicle in	E957	Late complication of amputation				
	collision with pedestrian or pedal cycle	E958	stump Late complication of irradiation				
E834	Motor vehicle non-traffic accident	E959	Late complications of other forms of				
12034	while boarding and alighting	E061	treatment				
E840	Street car accident to pedestrian	E961 E964	Late effect of accidental poisoning Late effect of injury purposely				
E841	Other street car accident, except collision with motor vehicle	L)04	inflicted by another person (not in				
E844	Accident to pedestrian caused by other	7004	war)				
	non-motor road vehicle	E984 E990	Injury by intervention of police Injury due to war operations by gas				
E852	Fall on stairs and ladders in water	L330	and chemicals				
E862	transport Other injury in commercial "trans-	E991	Injury due to war operations by				
2002	port " aircraft	E992	gunshot				
E864	Aircraft accident at airfield to person	E992	Injury due to war operations by grenade and land mine				
TOCE	not in aircraft	E993	Injury due to war operations by bomb				
E865	Aircraft accident elsewhere to person not in aircraft	E994	Injury due to war operations by				
E875	Accidental poisoning by sulpho-		marine mine, depth charge, and torpedo				
T10 mm	namides	E995	Injury due to war operations by				
E877	Accidental poisoning by belladonna, hyoscine, and atropine	T006	explosion of artillery shell				
E884	Accidental poisoning by mercury and	E996	Injury due to war operations by explosion of undetermined origin				
2004	its compounds	E997	Injury due to war operations by				
E885	Accidental poisoning by lead and its	7005	aircraft destruction				
E886	compounds Accidental poisoning by arsenic and	E998	Injury due to war operations by other and unspecified means				
1000	antimony, and their compounds	E999	Injury due to war operations but				
E887	Accidental poisoning by fluorides		occurring after cessation of hostili-				
E893	Accidental poisoning by cyanide gas		ties				

APPENDIX C

The following paper was prepared by the World Health Organization Centre for Classification of Diseases, and has been distributed to National Committees on Vital and Health Statistics. It is reproduced here because it is thought that it may be of interest generally to readers of the Registrar General's Statistical Review in this country.

COMPARISON OF CAUSE-OF-DEATH CODING: CANADA, ENGLAND AND WALES, AND THE UNITED STATES OF AMERICA

Study made by the World Health Organization Centre for the Classification of Diseases, London

Discussions on special coding problems have taken place from time to time between the vital statistics offices of the three countries, with WHO Centre acting as co-ordinator. In these discussions quite frequent disagreements in coding were recorded, and this led to anxiety about the international comparability of mortality statistics. It was appreciated that the disagreements concerned problem cases, selected because they had given rise to some difficulty in assignment, and it was felt that it would be of value to have some information on the extent of disagreement over the whole range of classifying statements of cause of death.

The World Health Organization Centre accordingly invited the three offices, the Dominion Bureau of Statistics (DBS), Canada, the General Register Office (GRO), England and Wales, and the National Office of Vital Statistics (NOVS), United States of America, to co-operate in a comparison of cause-of-death coding. All three offices agreed and their co-operation is gratefully acknowledged. The Sixth Revision of the International Statistical Classification and Rules of Selection were used in the comparison.

Aims

The aims of the study were:

- (a) to compare the statistical pictures produced by the three offices when coding the same set of routine death certificates;
- (b) to investigate the causes of disagreements in assignment;
- (c) to discover what measures are necessary to eliminate the causes of disagreement.

Preparation of coding decks

The precise methods to be used in selecting the death certificates were left to the individual offices acting within the following framework laid down by WHO Centre:

1. Each office should prepare a deck of 1,000 recent certificates, consisting of a small number of batches.

- 2. The batches should be chosen to eliminate any obvious bias (e.g. the whole 1,000 should not come from one city) but no attempt need be made to select a representative sample in the statistical sense. Seasonal fluctuations were regarded as unimportant but the period of any epidemic should be avoided.
- 3. Each batch should be a straight run of certificates without any selection whatsoever.
- 4. Each case should give sex, age, the original information reported as cause of death, and any additional information which had been volunteered by the certifiers or elicited by means of inquiries to the certifiers.

The aim of the selection procedure was to produce sets of certificates which would be representative of those met with in the normal course of events; no certificate was to be excluded because it was "too simple" for a test of coding.

Coding of the certificates

Coding decks were exchanged so that each office had copies of all three, and the certificates were coded in accordance with the following instructions:

- 1. Each office should code all 3,000 certificates in a manner as close as possible to its usual coding procedure, i.e. spreading the work over the coders and checkers in the usual way, requesting no more than the usual amount of professional advice, and generally aiming at normal conditions.
- 2. Additional information volunteered by the certifiers or obtained by inquiry should be taken into account.
- 3. Each office should code according to the international rules of selection plus any local rules, or modifications of the international rules, which it normally used. The assignments, however, should be expressed only as categories, three- or four-digit, of the International Classification—local additional subdivisions should not be shown.
- 4. Each office should send to WHO Centre a copy of each deck duly coded in the manner described above.

As in the selection of certificates, so in the coding, the aim was to approximate as closely to normal conditions as was compatible with the nature of the study. It was, of course, impossible to achieve complete normality since coders knew that this was not part of their regular work and, in fact, knew the purpose of the study. The intention was to avoid *provoking* an attitude of extreme carefulness.

Each of the three offices coded the certificates in this manner, but in addition NOVS had a complete review by the cause-of-death coding instructor in consultation with the supervisor, a procedure not normally used in that office. The Dominion Bureau of Statistics and GRO used both the E and the N classifications of accidents, poisonings, and violence; NOVS used the E classification only.

Comparison of distributions

The World Health Organization Centre had, therefore, four sets of codes for the 3,000 death certificates; one each from DBS and GRO and two from NOVS, the first (NOVS a) being comparable to the other two in method of coding, and the second (NOVS b) being the result of a further check by the coding instructor in consultation with the supervisor. A table was prepared showing the four distributions side by side for the categories of the Detailed List. Table I (page 295) is a summary of this table.

Table I. Distribution of 3,000 certificates of cause of death according to assignments in three vital statistics offices

I.S.C.			CDC	NOVS	
Nos.	Title	DBS	GRO	a	b
001–019	Tuberculosis (all forms)	31	30	30	28
020-138	Other infective and parasitic diseases	24 11	22	21 10	20 10
140–148 150–159	Malignant neoplasm of buccal cavity and pharynx Malignant neoplasm of digestive organs and	11	11	10	10
130-139	neritoneum	180	179	177	177
160–165	Malignant neoplasm of respiratory system	69	71	68	67
170–181	Malignant neoplasm of breast and genito-urinary organs	104	99	103	100
190-199	Malignant neoplasm of other and unspecified sites	43	46	49	48
200–205	Neoplasms of lymphatic and haematopoietic	23	22	22	22
210-239	Benign neoplasm and neoplasm of unspecified	23	22	24	. 2.20
210-239	nature	. 9	· 11	- 11	10
240-289	Allergic, endocrine system, metabolic and		70	. 65	67
	nutritional diseases	. 67	70	65	67
290-299	Diseases of the blood and blood-forming organs	8	9	10	9
300–326	Mental, psychoneurotic, and personality disorders	12	14	7	9
330-334	Vascular lesions affecting the central nervous	202	271	358	359
240 200	system	383	371	330	339
340–398	Other diseases of the nervous system and sense organs	18	24	16	20
400-416	Rheumatic fever and chronic rheumatic heart				(2)
	disease	52	59	61	63
420-422	Arteriosclerotic and degenerative heart disease	854	847	847	852
430-434	Other diseases of heart	56	57	68	61
440–443	Hypertensive heart disease	122	120	118	118
444-447	Other hypertensive disease	34	36	37	36
450-456	Diseases of arteries	80	79	00	63
460–468	Diseases of veins and other diseases of circulatory	11	13	. 8	13
400 402	system	11 28	29	28	28
480-483 490-493	Influenza	128	129	141	140
500-502		110	111	109	106
470-475	Bronchitis Acute upper respiratory infections and other		20	2.4	39
510-527	diseases of respiratory system	37	38 21	34 19	19
540-545	Diseases of stomach and duodenum	18	35	35	35
580-587 530-539	Diseases of liver, gallbladder, and pancreas		39	42	41
550-578	Other diseases of digestive system	38	39	44	71
590-594	Nephritis and nephrosis	43	45	49	47
660–637	Other diseases of genito-urinary system	33	32	39	37
640-689	Deliveries and complications of pregnancy,	4	4	2	. 3
(00 716	childbirth, and the puerperium	2	2	2 2	2
690–716 720–749	Diseases of the skin and cellular tissue Diseases of the bones and organs of movement	10	9	9	11
750-759	Congenital malformations	34	31	35	32
760-769	Birth injuries, asphyxia, and infections of newborn	57	55	51	52
770-776	Other diseases peculiar to early infancy	42	42	46 36	45 36
780–795	Symptoms, senility, and ill-defined conditions	37 155	33 155	157	155
E800-E999	Accidents, poisonings, and violence	133			
	Total	3,000	3,000	3,000	3,000

Causes of disagreement; remedies

The World Health Organization Centre listed those cases where the four codes were not identical. There were 345 in all, about 11 per cent of the whole series. This rather high level of disagreement is not reflected in Table I because the differences are to some extent compensating within the groups of categories. For example, there were 34 cases of disagreement involving category 420·1 (Coronary disease), i.e. 34 cases where at least one office but not all four had coded to 420·1, but the frequencies for 420·1 in the four distributions were all within 5 (DBS 448, GRO 448, NOVS a 443, NOVS b 444). Similarly, the frequencies assigned to the group 400–468 (Diseases of the circulatory system) by DBS and GRO were 1,209 and 1,211 respectively, a difference of 2 but there were only 1,185 cases which both offices coded to this group.

In attempting to analyse the causes of the disagreements, 109 of them can be discounted as far as the future is concerned. A few of these were admitted coding errors, but the majority were due to conflicts between rulings in the different offices which have been resolved by the Seventh Revision, which came into operation at the beginning of 1958. For example, GRO assigned cancer of bronchus to 162 instead of 163, a change which has been incorporated into the Seventh Revision. Again, a large number of these disagreements arose from different interpretations of the term "specified as primary" in the titles of categories 162 and 163, but the ambiguity is ended in the Seventh Revision.

Of the remaining 236 disagreements, the largest group resulted from different views on what constitutes a "highly improbable sequence". There were 75 examples of this type, and it was possible to discern a number of patterns. The National Office of Vital Statistics, for example, did not accept sequences in which lobar pneumonia was said to be due to cerebral vascular lesions or heart diseases, whereas the other two offices were prepared to take the lobar pneumonia as secondary. The Dominion Bureau of Statistics considered cerebral vascular lesions reported as due to heart conditions to be highly improbable sequences, whereas GRO and NOVS accepted them. The General Register Office was alone in accepting these conditions in the reverse order, i.e. heart, including coronary, conditions reported as due to cerebral vascular lesions. Some of these decisions were based on local peculiarities in certification. For example, GRO accepted sequences in the form "heart condition due to arteriosclerosis due to chronic bronchitis" because inquiries had shown that more often than not the certifier intended to indicate the chronic bronchitis rather than the arteriosclerosis as the underlying cause of the heart disease.

A similar group, containing 29 cases, involved decisions about "direct sequel" for exception 1 (d) and "frequent complication" for supplementary rule 3 (a). The main difficulty seemed to arise when Part I of the certificate contained possibly terminal conditions such as pulmonary embolism or pneumonia, and Part II contained a very serious condition such as cancer, or mention of an operation.

There were a further 41 cases which arose out of the selection rules linking one condition with another when jointly mentioned, or preferring a more specific term to a less definite one, or a later manifestation to an earlier form of the same disease. In the Seventh Revision the wording of these rules has been tightened up, so that differences in their interpretation should be fewer in future.

A small group, of 21 cases, was due to the application of definite local rulings in one or another of the three offices. Some of these rulings catered for particular usages or modes of certification. For example, the term "metastatic cancer" is used in England and Wales to mean "secondary cancer" whereas in Canada and the United States of America it is used in the sense of "cancer giving rise to metastases".

The remaining cases, 70 in all, included a few where an inquiry had elicited a controversial response from the certifier and a few coroners' cases not certified on the international form of certificate, but mainly concerned specific terms and expressions which could not be found in their stated form in the International Classification. Most of the disagreements on the coding of accidents came into this group.

In September 1957, Dr. W. P. D. Logan, Head of WHO Centre and Chief Medical Statistician of GRO, discussed the differences in coding with Dr. I. M. Moriyama of NOVS and Mr. F. F. Harris of DBS. Some agreed decisions were made on the acceptability or otherwise of certain sequences in order to reduce the number of differences due to this cause. It was proposed that the exercise be repeated later, in order to see the effect of these decisions and of the Seventh Revision of the International Classification and the Rules of Selection. A further report will be made in due course.

APPENDIX D

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Benjamin, B. . . . Demographic Aspects of Ageing. The Biology of Ageing, page 55. Published by the Institute of Biology, 1957.

The Registrar General's Statistical Review of England and Wales for 1955

Supplement on Hospital In-patient Statistics

This supplement contains the first report to be published on the revised and extended Hospital In-patient Enquiry. The report is based on statistics compiled from confidential summaries of salient details from hospital case records of one in-patient in every ten discharged from every type of hospital in the National Health Service (except Mental and Mental Deficiency Hospitals which are covered by a separate Enquiry). Two hospital regions, the East Anglian and Wales, were completely represented in the Enquiry, and a special feature of the report, a detailed comparison of the information obtained from them, gives an indication of the kind of interesting variations that future reports may be expected to reveal. A commentary, illustrated by summary tables, serves as an introduction to detailed tables which include the following information: (i) the age distribution of patients treated for some 200 groups of diseases and how it varied between regions, with, for East Anglia and Wales, the discharge rates per 10,000 population; (ii) the discharge rates for urban and rural residents in East Anglia and Wales; (iii) to what extent patients treated in certain hospital regions had "crossed the border" from other regions or come from other countries; (iv) what proportion of patients had been on a waiting list for admission to hospital for treatment of certain conditions and for how long; (v) how long patients stayed in hospital for treatment of these conditions; and (vi) what proportion were discharged home, transferred to other hospitals or convalescent homes, or died. There is also a table dealing with various aspects of the hospitalisation of children under 15, and a table concerning maternity cases admitted to hospital.

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